

# Receiving Report

Date: MAR 15 2017

Batch No: 137073

Supplier: ADIAI

Dart P/O: 35533

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☒ No ☐  
 Receipt: Cash ☐ Cr ☒  
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☒ No ☐ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC18 Inspection ☐ N/A ☒  
 Work Order ☐ N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver QC12 SD

Production/Admin: \_\_\_\_\_  
 Date \_\_\_\_\_  
 Received/Costing \_\_\_\_\_  
 Initial \_\_\_\_\_

Location \_\_\_\_\_



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO35553**

Purchase Order Date 3/16/2017

PO Print Date 3/16/2017

Page Number 1 of 6

**Order From :**

VU-AVI003

**Ship To :** DART AEROSPACE LTD

AVIALL  
PO BOX 842275

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

DALLAS, TX 75284-2275  
USA

REVISED 1

**Contact Name**

**Vendor Phone** 905-676-1695

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Ship To Contact**

**Terms**

Net 30

**Ship To Phone**

**Currency**

USD

**Ship Via:**

FedEx Overnight collect

**FOB**

EXW - (Ex Works)

**Ship Acct:**

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	156003-6D0590  AS PER DWG D4121 REV. D B158086	Hose Assembly	3/16/2017 Yes 3/16/2017		2.00 Each	\$248.76	\$497.52
Line Total:							\$497.52
2	156062D1054D000  AS PER DWG D4121 REV. D B158087	Hose Assembly	3/16/2017 Yes 3/16/2017		2.00 Each	\$460.00	\$920.00
Line Total:							\$920.00
3	600.0990	Magnabond 6398 Part A Size 112 ml	3/16/2017 Yes 3/16/2017	FN	12.00 Each	\$30.13	\$361.56

MAR 15 2017

PO Instructions: Fedex Acc#151793240

Note:

3/14/2017



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO35553**

Purchase Order Date 3/10/2017

PO Print Date 3/14/2017

Page Number 2 of 6

**Order From :**

VU-AVI003

AVIALL  
PO BOX 842275

DALLAS, TX 75284-2275  
USA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

905-676-1695

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

EXW - (Ex Works)

**Line Total:** \$361.56

4	600.0991	Magnabond 6398 Part B Size 112 ml	3/16/2017	FN	12.00	\$30.13	\$361.56
		Yes	3/16/2017		Each		

**Line Total:** \$361.56

5	600.1012	Sealant PR1425B2 (#654 sem)	3/16/2017	FN	7.00	\$59.03	\$413.21
		Yes	3/16/2017		Each		

**Line Total:** \$413.21

6	AN3-35A	Bolt	3/16/2017	FN	50.00	\$0.47	\$23.50
		Yes	3/16/2017		Each		

**PO Instructions:** Fedex Acc#151793240

**Note:**

3/14/2017

MAR 15 2017

DART  
9:45



Dart Aerospace Ltd.  
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Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO35553**

Purchase Order Date 3/16/2017

PO Print Date 3/14/2017

Page Number 3 of 6

**Order From :**

AVIALL  
PO BOX 842275

DALLAS, TX 75284-2275  
USA

VU-AVI003

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

905-676-1695

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

EXW - (Ex Works)

**Line Total:** \$23.50

7 AN4-13A

Bolt

3/16/2017 FN

50.00

Yes

Each

3/16/2017

\$0.18

\$9.00

**Line Total:** \$9.00

8 AN4-17A

Bolt

3/16/2017 FN

100.00

Yes

Each

3/16/2017

\$0.24

\$24.00

**Line Total:** \$24.00

9 AN5-6A

Bolt

3/16/2017

30.00

Yes

Each

3/16/2017

\$0.21

\$6.30

**Line Total:** \$6.30

**PO Instructions:** Fedex Acc#151793240

**Note:**

3/14/2017



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Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO35553**

Purchase Order Date 3/16/2017

PO Print Date 3/14/2017

Page Number 4 of 6

**Order From :**

AVIALL  
PO BOX 842275

DALLAS, TX 75284-2275  
USA

VU-AVI003

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 905-676-1695

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

EXW - (Ex Works)

10	AN6-35A	BOLT	3/16/2017 Yes 3/16/2017	20.00 Each	\$1.10	\$22.00
51334						
<b>Line Total:</b>						<b>\$22.00</b>
11	AN816-6D	Nipple-M-6Flare -1/4NPT	3/16/2017 Yes 3/16/2017	5.00 Each	\$2.65	\$13.25
<b>Line Total:</b>						<b>\$13.25</b>
12	AN818-8D	Nut	3/16/2017 Yes 3/16/2017	10.00 Each	\$1.63	\$16.30
51325						
<b>Line Total:</b>						<b>\$16.30</b>
13	MS20002C6	WASHER	3/16/2017 Yes 3/16/2017	100.00 Each	\$0.08	\$8.00
51314						

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Purchase Order ID **PO35553**

Purchase Order Date 3/10/2017

PO Print Date 3/14/2017

Page Number 5 of 6

**Order From :**

VU-AVI003

AVIALL  
PO BOX 842275

DALLAS, TX 75284-2275  
USA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

905-676-1695

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

EXW - (Ex Works)

**Line Total:** \$8.00

14 MS21042L3

Nut

3/16/2017 FN

1,000.00

Yes

Each

3/16/2017

\$0.14

\$140.00

**Line Total:** \$140.00

15 71401-45

PROCUREMENT  
QUALITY CLAUSES

3/16/2017

1.00

No

3/16/2017

\$0.00

\$0.00

**Procurement Quality Clauses**

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A015 SHELF LIFE CONTROLLED MATERIAL; 60% SHELF  
LIFE REQUIRED ACCEPTABLE

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A043 RETENTION OF QUALITY DOCUMENT

**PO Instructions:** Fedex Acc#151793240

**Note:**

3/14/2017



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO85553**

Purchase Order Date 3/14/2017

PO Print Date 3/14/2017

Page Number 6 of 6

**Order From :**

VU-AVI003

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

AVIALL  
PO BOX 842275

DALLAS, TX 75284-2275  
USA

**Contact Name**

**Vendor Phone**

905-676-1695

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

FedEx Overnight collect

**Ship Acct:**

**Buyer**

**Customer POID**

**Customer Tax #**

**Terms**

**Currency**

**FOB**

Chantal Lavoie

10127-2607

Net 30

USD

EXW - (Ex Works)

**Line Total:** \$0.00

**PO Total:** \$2,816.20

PO Instructions: Fedex Acc#151793240

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr:

2

Change Date:

3/14/2017



## PACKING LIST



DELIVERY NUMBER: 8004232178

ROUTE: US FedEx International Priority

PAGE:1 of 1

DATE:14MAR17

TIME:12:07:52

EMP:00000000

ORD TYP: ZOR 169

CURRENCY:USD

TERMS:Net 30

CUSTOMER PO:35553  
ORDER NUMBER:1002930526  
ORDER DATE:13MAR17

B 10003952  
I DART AEROSPACE LTD  
L 1270 ABERDEEN STREET  
L HAWKESBURY ON K6A 1K7  
T CANADA  
O

S 10003952  
H DART AEROSPACE LTD  
I 1270 ABERDEEN STREET  
P HAWKESBURY ON K6A 1K7  
T CANADA  
O

S 1000  
H AVIALL CENTRAL WAREHOUSE  
I DALLAS CDC  
P 2750 REGENT BLVD  
F DFW AIRPORT TX 75261  
R USA  
M

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
00010	0	33	MAGNOBOND6398 ADHESIVE: EPOXY,A/B,112ML BATCH 7364498157	12	12	0	CQ		60.26	723.12
			Exp Date :01FEB18		12					

245  
6  
8-50

MAR 15 2017

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## CERTIFICATE OF CONFORMANCE

It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd. DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

14MAR17  
Date

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RETURNED MERCHANDISE SUBJECT TO HANDLING  
FEE.

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AMENDED.

CUSTOMER COPY





## PACKING LIST



DELIVERY NUMBER: 8004232179

ROUTE: US FedEx International Priority

PAGE:1 of 2

DATE:14MAR17

TIME:09:50:34

EMP:00000000

ORD TYP: ZOR 169

CURRENCY:USD

TERMS:Net 30

CUSTOMER PO:35553  
ORDER NUMBER:1002930526  
ORDER DATE:13MAR17

B 10003952  
I DART AEROSPACE LTD  
L 1270 ABERDEEN STREET  
L HAWKESBURY ON K6A 1K7  
T CANADA  
O

S 10003952  
H DART AEROSPACE LTD  
I 1270 ABERDEEN STREET  
P HAWKESBURY ON K6A 1K7  
T CANADA  
O

S 1000  
H AVIALL CENTRAL WAREHOUSE  
I DALLAS CDC  
P 2750 REGENT BLVD  
F DFW AIRPORT TX 75261  
R USA  
O

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
00010	0	5N	PR1425B2-60Z SEALANT: 654 SEMKIT	7	7	0	EA		59.03	413.21 ✓
			BATCH 7364489178 Exp Date :30NOV17		7					
00020	0	28	AN3-35A BOLT: HEX HD,ST	50	50	0	EA		0.47	23.50 ✓
			BATCH 7364433792		50					
00030	0	28	AN4-13A BOLT: HEX HD,ST	50	50	0	EA		0.18	9.00 ✓
			BATCH 7364385613		50					
00040	0	28	AN4-17A BOLT: HEX HD,ST	100	100	0	EA		0.24	24.00 ✓
			BATCH 7364441728		100					
00050	0	28	AN5-6A BOLT: HEX HD,ST	30	30	0	EA		0.22	6.60 ✓
			BATCH 7364365864		30					
00060	0	28	AN6-35A BOLT: HEX HD,ST	20	20	0	EA		1.10	22.00 ✓

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14MAR17  
Date

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FEE.  
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CUSTOMER COPY



## PACKING LIST



DELIVERY NUMBER: 8004232179

ROUTE: US FedEx International Priority

PAGE:2 of 2

DATE:14MAR17

TIME:09:50:34

EMP:00000000

ORD TYP: ZOR 169

CURRENCY:USD

TERMS:Net 30

CUSTOMER PO:35553  
ORDER NUMBER:1002930526  
ORDER DATE:13MAR17

B 10003952  
I DART AEROSPACE LTD  
L 1270 ABERDEEN STREET  
L HAWKESBURY ON K6A 1K7  
T CANADA  
O

S 10003952  
H DART AEROSPACE LTD  
I 1270 ABERDEEN STREET  
P HAWKESBURY ON K6A 1K7  
T CANADA  
O

S 1000  
H AVIALL CENTRAL WAREHOUSE  
I DALLAS CDC  
P 2750 REGENT BLVD  
F DFW AIRPORT TX 75261  
R USA  
M

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
			BATCH 7364390216		20					
00070	0	28	AS5194D0604 FITTING: ADAPTER,STR,AL	5	5	0	EA		2.65	13.25
			BATCH 7364399283		5					
00080	0	28	AN818-8D NUT: COUPLING,AL	10	10	0	EA		1.63	16.30
			BATCH 7364378366		10					
00090	0	28	MS20002C6 WASHER: CSK,ST	100	100	0	EA		0.08	8.00
			BATCH 7364369281		100					
00100	0	28	MS21042L3 NUT: SELF-LKG,ST	1,000	1,000	0	EA		0.14	140.00
			BATCH 7364396136		1,000					

MAR 15 2017



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CUSTOMER COPY



## BOX CONTENT LIST



ODO: 310005791338

ROUTE: FDXIPA

PAGE: 1 of 2  
DATE: 03/14/2017  
TIME: 09:49:44

Handling Unit: 110000000502414905

CUSTOMER PO:35553  
ORDER NUMBER:8004232179

Packed at WorkCenter: SI03

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CU10003952  
DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY ON K6A 1K7  
CANADAS  
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CU10003952  
DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY ON K6A 1K7  
CANADAS  
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AVIALL CENTRAL WAREHOUSE  
DALLAS CDC  
PO Box 619048  
DFW AIRPORT TX 75261  
USA

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	UOM			
00040		5N	PR1425B2-60Z=5N SEALANT: 654 SEMKIT	7	7	EA	✓		
			BATCH 7364489178 Exp Date: 11/30/2017		7				
00050		28	AN3-35A=28 BOLT: HEX HD,ST	50	50	EA	✓		
			BATCH 7364433792 Exp Date:		50				
00060		28	AN4-13A=28 BOLT: HEX HD,ST	50	50	EA	✓		
			BATCH 7364385613 Exp Date:		50				
00070		28	AN4-17A=28 BOLT: HEX HD,ST	100	100	EA	✓		
			BATCH 7364441728 Exp Date:		100				
00080		28	AN5-6A=28 BOLT: HEX HD,ST	30	30	EA	✓		
00090		28	AN6-35A=28 BOLT: HEX HD,ST	20	20	EA	✓		
			BATCH 7364390216 Exp Date:		20				

MAR 15 2017

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## BOX CONTENT LIST



ODO: 310005791338

ROUTE: FDXIPA

PAGE: 2 of 2  
DATE: 03/14/2017  
TIME: 09:49:44

Handling Unit: 110000000502414905

Packed at WorkCenter: SI03

CUSTOMER PO:35553  
ORDER NUMBER:8004232179B CU10003952  
I DART AEROSPACE LTD  
L 1270 ABERDEEN STREET  
L HAWKESBURY ON K6A 1K7  
T CANADA  
OS CU10003952  
H DART AEROSPACE LTD  
I 1270 ABERDEEN STREET  
P HAWKESBURY ON K6A 1K7  
T CANADA  
OS 1000  
H AVIALL CENTRAL WAREHOUSE  
I DALLAS CDC  
P PO Box 619048  
F DFW AIRPORT TX 75261  
R USA  
M

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	UOM
00100		28	AS5194D0604=28 FITTING: ADAPTER,STR,AL	5	5	EA
			BATCH 7364399283 Exp Date:		5	
00110		28	AN818-8D=28 NUT: COUPLING,AL	10	10	EA
			BATCH 7364378366 Exp Date:		10	
00120		28	MS20002C6=28 WASHER: CSK,ST	100	100	EA
			BATCH 7364369281 Exp Date:		100	
00130		28	MS21042L3=28 NUT: SELF-LKG,ST	1,000	1,000	EA
			BATCH 7364396136 Exp Date:		1,000	
			BATCH 7364365864 Exp Date:		30	

MAR 15 2017

DAS  
6  
9:49

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RETURNED MERCHANDISE SUBJECT TO HANDLING  
FEE.  
THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH  
THE PROVISIONS OF THE FAIR LABOR ACT OF 1938  
AMENDED.



# Commercial Invoice

Delivery Number	Commercial Invoice Number
8004234768	9305259603

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Price USD	Extended Value USD
------	---------------------------	-------------------	----------	-----	-------------------	-----------------------

Gross Value	1,417.52
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	1,417.52

**FOR CUSTOMS PURPOSES ONLY  
NOT A BILLING INVOICE**

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end user(s) here in identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.



A BOEING COMPANY

AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT TX 75261  
USA

# Commercial Invoice

Government Transaction Number

NOEEI FTR 30.36

Tracking Number

598520538874

Delivery Number

8004234768

Ship From

LU\_US\_1009

Commercial Invoice Number

9305259603

AVIALL DALLAS HOSE SHOP

2755 REGENT BLVD

DFW AIRPORT TX 75261

USA

Ship Date

14 March, 2017

Incoterms

EXW Shipping Point

Sold To	10003952	Ultimate Consignee	10003952	Ship To	10003952	Freight Forwarder	400010
DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515	
Tax Number: 20-4734803							

Comments:

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value USD	Extended Value USD
10	156003-6D0590 - HOSE: MED PRESSURE,RUBBER Export Tariff: 4009220050 Export Classification: 9A991.d Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553	US	2	EA	248.76	497.52
20	156062D1054D000 - HOSE: MED PRESSURE,RUBBER Export Tariff: 4009220050 Export Classification: 9A991.d Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553	US	2	EA	460.00	920.00



A BOEING COMPANY

AVIAL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT TX 75261  
USA

# Commercial Invoice

Government Transaction Number

NOEEI FTR 30.36

Tracking Number

722544332743

Delivery Number

8004232179

Commercial Invoice Number

9305256399

Ship From

LU\_US\_1000

Ship Date

14 March, 2017

AVIAL CENTRAL WAREHOUSE  
2750 REGENT BLVD.  
DFW AIRPORT TX 75261  
USA

Incoterms

EXW Shipping Point

Sold To	10003952	Ultimate Consignee	10003952	Ship To	10003952	Freight Forwarder	400010
DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA		FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515	
						Tax Number: 20-4734803	

Comments:

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value USD	Extended Value USD
40	PR1425B2-60Z - SEALANT: 654 SEMKIT Export Tariff: 3214905000 Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364489178	US	7	EA	59.03	413.21
50	AN3-35A - BOLT: HEX HD,ST Export Tariff: 7318152000 Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364433792	US	50	EA	0.47	23.50
60	AN4-13A - BOLT: HEX HD,ST Export Tariff: 7318152000 Export Classification: 9A991.d Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364385613	US	50	EA	0.18	9.00



A BOEING COMPANY

# Commercial Invoice

Delivery Number

8004232179

Commercial Invoice Number

9305256399

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Price USD	Extended Value USD
70	AN4-17A - BOLT: HEX HD,ST Export Tariff: 7318152000 Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364441728	US	100	EA	0.24	24.00
80	AN5-6A - BOLT: HEX HD,ST Export Tariff: 7318152000 Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553	US	30	EA	0.22	6.60
90	AN6-35A - BOLT: HEX HD,ST Export Tariff: 7318152000 Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364390216	US	20	EA	1.10	22.00
100	AS5194D0604 - FITTING: ADAPTER,STR,AL Export Tariff: 7609000000 Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364399283	US	5	EA	2.65	13.25
110	AN818-8D - NUT: COUPLING,AL Export Tariff: 7616106000 Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364378366	US	10	EA	1.63	16.30
120	MS20002C6 - WASHER: CSK,ST Export Tariff: 7318220000 Export Classification: 9A991.d Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364369281	US	100	EA	0.08	8.00
130	MS21042L3 - NUT: SELF-LKG,ST Export Tariff: 7318160000 Export Classification: 9A991.d Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364396136	US	1,000	EA	0.14	140.00





A BOEING COMPANY

# Commercial Invoice

Delivery Number	Commercial Invoice Number
8004232179	9305256399

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Price USD	Extended Value USD
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Gross Value	675.86
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	675.86

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PRC-DeSoto International, Inc.  
A PPG Industries Company

# Certificate of Conformance Pick Ticket

Page: 1 of 1

PRC DESOTO INTL-ASC DALLAS  
2750 114th Street, Suite 400  
Grand Prairie, TX 75050  
UNITED STATES  
Phone: 817-640-1067

Fax: 817-640-1058

Order Date: 12/06/16  
Cust. No.: DA090713  
Terms: net30  
Cust. P.O.: 45555211



Site: 3723US

Pack List #: S1303687



CSR: DA503

Transaction Type:  
Shipment Terms:

DS-PO#:

Shipvia: SEE BELOW

Ship To 00030970

Remarks: SPEC-AVIAL/ROJEAN 972-586-1314 KNL

Sold To: DA090713

AVIAL SERVICES, INC.  
P.O. BOX 619048  
DALLAS, TX 75261-9048  
UNITED STATES

AVIAL CENTRAL WAREHOUSE  
2750 REGENT BOULEVARD  
ATTN: RECEIVING DOCK 15-18  
DFW AIRPORT, TX 75261  
UNITED STATES

Line	Qty Ordered	UM	Description	Req Date	Due Date	Promise Date	Qty to Ship	Qty Picked
------	-------------	----	-------------	----------	----------	--------------	-------------	------------

NEVER ADD FRT TO INVOICE, MUST SHIP COLLECT  
FEDEX GROUND COLLECT ACCT #123985630  
IF 150 LBS OR MORE FEDEX FREIGHT COLLECT (ACCT# 532626056)  
DO NOT SHIP PARTIAL LINES! \*\*\* MSDS REQUIRED WITH EACH SHIPMENT \*\*\*  
MUST HAVE 75% SHELF LIFE.  
EDGE PROTECTORS REQUIRED  
PRICE IS SUBJECT TO CHANGE

1	480	EA	1425B002CA654SKAV	02/27/17	02/27/17	02/27/17		
---	-----	----	-------------------	----------	----------	----------	--	--

PRC STANDARD  
PR 1425 B 2 654SK  
SPEC: PRC STD 13 REV NOT CONTROLLED  
Customer Item: PR1425B2-60Z=5N

Lot No: 945729-02  
\*Location: RACK 26  
Expires After: 11/17

In compliance with the chemical registration laws of UNITED STATES

480 480

022891

20-24

DOM OR DOP: 02.17  
EXP DATE: 11.17  
SHELF LIFE: 9 MONTHS  
(W)

ITEM PR1425B2-60Z=5N



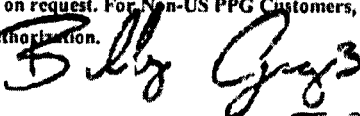
BATCH 7364489178



KMAYFIELD  
03/01/17

Shipped by  Date 2/27/17

PPG Aerospace/PRC DeSoto International certifies that the above material has been manufactured, tested and conforms to all requirements in accordance with applicable specifications. All test data pertaining to batch acceptance requirements defined by the specification for this material is on file and available for inspection on request. For Non-US PPG Customers, we can only offer Technical Data/Test Reports for any ITAR restricted specifications with valid US export authorization.



SH6

Quality  
Control

0629

# SAFETY DATA SHEET



Date of issue/Date of revision 22 July 2015

Version 8

## Section 1. Identification

**Product name** : PR 1425 B 2 Part A  
**Product code** : PR 1425 B 2 Part A  
**Other means of identification** : Not available.  
**Product type** : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications.  
**Use of the substance/ mixture** : Sealants  
**Uses advised against** : Not applicable.

**Supplier** : PPG Aerospace PRC-DeSoto  
12780 San Fernando Road  
Sylmar, CA 91342  
Phone: 818 362 6711

**Emergency telephone number** : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : ACUTE TOXICITY (inhalation) - Category 4  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 1A  
TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 36.6%

### GHS label elements

**Hazard pictograms** :



**Signal word** : **Danger**

## Section 2. Hazards identification

**Hazard statements** : Harmful if inhaled.  
May cause an allergic skin reaction.  
May cause cancer.  
May damage the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection.  
Wear protective clothing. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Contaminated work clothing must not be allowed out of the workplace.

**Response** : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. NTP, IARC and OSHA have classified chromium (+6) compounds as carcinogenic. Emits toxic fumes when heated.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Product name** : PR 1425 B 2 Part A

Ingredient name	%	CAS number
N,N-dimethylacetamide	≥25 - <31	127-19-5
calcium dichromate	≥10 - <25	14307-33-6
Talc, not containing asbestiform fibres	≥5 - <10	14807-96-6
magnesium carbonate	≥3 - <5	546-93-0
Kaolin	≥3 - <5	1332-58-7
carbon black, respirable powder	≥0.3 - <1	1333-86-4

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### Description of necessary first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Harmful if inhaled.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## Section 4. First aid measures

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : Ingestion of product or cured coating may be harmful. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
N,N-dimethylacetamide	<b>ACGIH TLV (United States, 4/2014).</b>
	<b>Absorbed through skin.</b>
	TWA: 36 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
	<b>OSHA PEL (United States, 2/2013).</b>
	<b>Absorbed through skin.</b>
	TWA: 35 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
calcium dichromate	<b>OSHA PEL (United States, 2/2013).</b>
	TWA: 0.005 mg/m <sup>3</sup> , (as Cr) 8 hours. Form:
	<b>OSHA PEL (United States).</b>
	TWA: 5 mg/m <sup>3</sup> Form:
	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 0.05 mg/m <sup>3</sup> , (measured as Cr) 8 hours.
	Form: Soluble
	<b>ACGIH TLV (United States).</b>
	: 0.05 mg/m <sup>3</sup> Form: Total dust
	<b>OSHA PEL Z2 (United States, 2/2013).</b>
	CEIL: 1 mg/10m <sup>3</sup> , ()
Talc , not containing asbestiform fibres	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	<b>OSHA PEL Z3 (United States, 2/2013).</b>
	TWA: 20 mppcf 8 hours. Form: not
	containing asbestos
magnesium carbonate	<b>OSHA PEL (United States, 2/2013).</b>
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Kaolin	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	<b>OSHA PEL (United States, 2/2013).</b>
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
carbon black, respirable powder	<b>ACGIH TLV (United States, 4/2014).</b>
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	<b>OSHA PEL (United States, 2/2013).</b>
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.

#### Key to abbreviations

A = Acceptable Maximum Peak  
 ACGIH = American Conference of Governmental Industrial Hygienists.  
 C = Ceiling Limit  
 F = Fume  
 IPEL = Internal Permissible Exposure Limit  
 OSHA = Occupational Safety and Health Administration.  
 R = Respirable

S = Potential skin absorption  
 SR = Respiratory sensitization  
 SS = Skin sensitization  
 STEL = Short term Exposure limit values  
 TD = Total dust  
 TLV = Threshold Limit Value  
 TWA = Time Weighted Average



## Section 8. Exposure controls/personal protection

Z = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

### Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety glasses with side shields.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Gloves** : butyl rubber

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

### Appearance

Physical state	: Liquid.
Color	: Black.
Odor	: Not available.
Odor threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Boiling point	: 100 to 166.11°C (212 to 331°F)
Flash point	: Closed cup: Not applicable.
Material supports combustion.	: Yes.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.35
Density ( lbs / gal )	: 11.27
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt)
VOC	: 0
% Solid. (w/w)	: 100

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

## Section 10. Stability and reactivity

**Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
N,N-dimethylacetamide  magnesium carbonate Kaolin carbon black, respirable powder	LC50 Inhalation Gas.	Rat	2475 ppm	1 hours
	LD50 Dermal	Rabbit	2240 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Oral	Rat	8000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

##### Conclusion/Summary

**Skin** : There are no data available on the mixture itself.

**Eyes** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

#### Sensitization

##### Conclusion/Summary

**Skin** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

#### Mutagenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Carcinogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Classification

Product/ingredient name	OSHA	IARC	NTP
calcium dichromate	+	1	Known to be a human carcinogen.
carbon black, respirable powder	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

#### Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Teratogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

## Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

Name	Category
Talc , not containing asbestiform fibres	Category 3

### Specific target organ toxicity (repeated exposure)

Name	Category
calcium dichromate	Category 2

**Target organs** : Contains material which causes damage to the following organs: kidneys, brain, eyes.  
Contains material which may cause damage to the following organs: blood, lungs, the reproductive system, liver, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), stomach.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : Harmful if inhaled.  
**Skin contact** : May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.  
**Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations  
**Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** : There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause

## Section 11. Toxicological information

irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Short term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Long term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Potential chronic health effects

**General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : May damage the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	9232.5 mg/kg
Dermal	2361.8 mg/kg
Inhalation (gases)	2657 ppm
Inhalation (vapors)	23.62 mg/l
Inhalation (dusts and mists)	3.221 mg/l

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
N,N-dimethylacetamide	-0.77	-	low

### Mobility in soil

## Section 12. Ecological information

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14. Transport information

	DOT	IMDG	IATA
UN number	Not regulated.	UN3082	UN3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (calcium dichromate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (calcium dichromate)
Transport hazard class(es)	-	9	9
Packing group	-	III	III
Environmental hazards	No.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(calcium dichromate)	Not applicable.

### Additional information

**DOT** : None identified.

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Product code PR 1425 B 2 Part A

Date of issue 22 July 2015

Version 8

Product name PR 1425 B 2 Part A

## 14. Transport information

**Special precautions for user** : **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

### United States

**United States inventory (TSCA 8b)** : All components are listed or exempted.

#### SARA 302/304

**SARA 304 RQ** : Not applicable.

#### Composition/information on ingredients

No products were found.

#### SARA 311/312

**Classification** : Immediate (acute) health hazard  
Delayed (chronic) health hazard

#### Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
N,N-dimethylacetamide	Yes.	No.	No.	Yes.	Yes.
calcium dichromate	No.	No.	No.	Yes.	Yes.
Talc , not containing asbestiform fibres	No.	No.	No.	Yes.	No.
carbon black, respirable powder	Yes.	No.	No.	No.	Yes.

#### SARA 313

	<u>Chemical name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Supplier notification</b>	: calcium dichromate	14307-33-6	10 - 30

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**Additional environmental information** is contained on the **Environmental Data Sheet** for this product, which can be obtained from your PPG representative.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

## Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**

**Health** : 3 \* **Flammability** : 0 **Physical hazards** : 0

(\*) - Chronic effects

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Product code PR 1425 B 2 Part A

Date of issue 22 July 2015

Version 8

Product name PR 1425 B 2 Part A

## Section 16. Other information

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 0 Instability : 0

Date of previous issue : 6/11/2015

Organization that prepared the MSDS : EHS

Key to abbreviations

: ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

☑ Indicates information that has changed from previously issued version.

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*



# SAFETY DATA SHEET



Date of issue/Date of revision 9 June 2015

Version 4

## Section 1. Identification

**Product name** : PR 1425 B 2 Part B  
**Product code** : PR 1425 B 2 Part B  
**Other means of identification** : Not available.  
**Product type** : Solid.

### Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications.  
**Use of the substance/ mixture** : Sealants  
**Uses advised against** : Not applicable.

**Supplier** : PPG Aerospace PRC-DeSoto  
12780 San Fernando Road  
Sylmar, CA 91342  
Phone: 818 362 6711

**Emergency telephone number** : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)

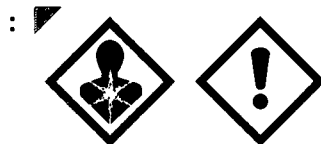
## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 11.7%

### GHS label elements

**Hazard pictograms**



**Signal word** : Warning

**Hazard statements** : May cause an allergic skin reaction.  
Suspected of causing cancer.

## Section 2. Hazards identification

### Precautionary statements

<b>Prevention</b>	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace.
<b>Response</b>	: If exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
<b>Storage</b>	: Store locked up.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: <b>1-component mixtures:</b> formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Emits toxic fumes when heated.
<b>Hazards not otherwise classified</b>	: None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Product name</b>	: PR 1425 B 2 Part B

Ingredient name	%	CAS number
Calcium carbonate	3 - 7	471-34-1
carbon black, respirable powder	3 - 7	1333-86-4
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	1 - 5	25036-25-3
Terphenyl, hydrogenated	1 - 5	61788-32-7

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### Description of necessary first aid measures

<b>Eye contact</b>	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
<b>Inhalation</b>	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

## Section 4. First aid measures

- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : ☒ May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : ☒ Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : ☒ No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
metal oxide/oxides

## Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : ☒ Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : ☒ Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 7. Handling and storage

- Special precautions** : If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
calcium carbonate	<b>ACGIH TLV (United States).</b> TWA: 3 mg/m <sup>3</sup> Form: Respirable TWA: 10 mg/m <sup>3</sup> Form: Total dust <b>OSHA PEL (United States).</b> TWA: 5 mg/m <sup>3</sup> Form: Respirable TWA: 15 mg/m <sup>3</sup> <b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
carbon black, respirable powder	<b>ACGIH TLV (United States, 4/2014).</b> TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>OSHA PEL (United States, 2/2013).</b> TWA: 3.5 mg/m <sup>3</sup> 8 hours.
Terphenyl, hydrogenated	<b>ACGIH TLV (United States, 4/2014).</b> TWA: 4.9 mg/m <sup>3</sup> 8 hours. TWA: 0.5 ppm 8 hours.

#### Key to abbreviations

A	= Acceptable Maximum Peak	S	= Potential skin absorption
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	= Respiratory sensitization
C	= Ceiling Limit	SS	= Skin sensitization
F	= Fume	STEL	= Short term Exposure limit values
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	= Occupational Safety and Health Administration.	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		

Consult local authorities for acceptable exposure limits.

## Section 8. Exposure controls/personal protection

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : ☒ Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety glasses with side shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Gloves** : ☒ Butyl rubber

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

### Appearance

Physical state	: Solid.
Color	: Black.
Odor	: Not available.
Odor threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: 93.33°C (200°F)
Material supports combustion.	: Yes.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.34
Density ( lbs / gal )	: 1.18
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): Not applicable.
VOC	: 40 g/l

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

## Section 10. Stability and reactivity

**Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Calcium carbonate carbon black, respirable powder	LD50 Oral	Rat	6450 mg/kg	-
	LD50 Dermal	Rabbit	>3 g/kg	-
Terphenyl, hydrogenated	LD50 Oral	Rat	>15400 mg/kg	-
	LD50 Oral	Rat	17500 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

##### Conclusion/Summary

**Skin** : There are no data available on the mixture itself.

**Eyes** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

#### Sensitization

##### Conclusion/Summary

**Skin** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

#### Mutagenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Carcinogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Classification

Product/ingredient name	OSHA	IARC	NTP
Carbon black, respirable powder	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

#### Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Teratogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)



## Section 11. Toxicological information

Not available.

**Target organs** : ☒ Contains material which may cause damage to the following organs: kidneys, lungs, liver, spleen, lymphatic system, upper respiratory tract, skin, eyes, bone marrow.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : ☒ May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : ☒ Adverse symptoms may include the following:  
irritation  
redness  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** : There are no data available on the mixture itself. **1-component mixtures:** formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Short term exposure

**Potential immediate effects** : There are no data available on the mixture itself.  
**Potential delayed effects** : There are no data available on the mixture itself.

#### Long term exposure

**Potential immediate effects** : There are no data available on the mixture itself.  
**Potential delayed effects** : There are no data available on the mixture itself.

#### Potential chronic health effects

**General** : ☒ Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.  
**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

#### Numerical measures of toxicity

## Section 11. Toxicological information

### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) : Not available.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14. Transport information

Product code PR 1425 B 2 Part B

Date of issue 9 June 2015

Version 4

Product name PR 1425 B 2 Part B

**14. Transport information**

	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class (es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

**Additional information**

DOT : None identified.

IMDG : None identified.

IATA : None identified.

**Special precautions for user : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Section 15. Regulatory information**United States inventory (TSCA 8b) : ☒ All components are listed or exempted.Australia inventory (AICS) : ☒ All components are listed or exempted.Canada inventory (DSL) : ☒ All components are listed or exempted.China inventory (IECSC) : ☒ All components are listed or exempted.

Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.

Japan inventory (ENCS) : At least one component is not listed.

Korea inventory (KECI) : ☒ All components are listed or exempted.New Zealand (NZIoC) : ☒ All components are listed or exempted.Philippines inventory (PICCS) : ☒ All components are listed or exempted.**United States****SARA 302/304**

SARA 304 RQ : Not applicable.

**Composition/information on ingredients**

No products were found.

**SARA 311/312**

Classification : ☒ Immediate (acute) health hazard  
☐ Delayed (chronic) health hazard

**Composition/information on ingredients**

## Section 15. Regulatory information

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Carbon black, respirable powder Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis [oxirane]	Yes. Yes.	No. No.	No. No.	No. Yes.	Yes. No.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health : ☒2 \* Flammability : 1 Physical hazards : 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)

Health : ☒2 Flammability : 1 Instability : 0

Date of previous issue : 5/7/2015.

Organization that prepared the MSDS : EHS

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

☒ Indicates information that has changed from previously issued version.

### Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.



Company  
Align Aerospace Main CDC  
21123 Nordhoff Street  
CHATSWORTH CA 91311  
USA

Phone:  
Fax:  
Internet:

Page 1 of 1  
10/28/2016

## PACKING SLIP

### Sold-To-Party



AVIAL SERVICES, INC.  
PO BOX 619048  
DALLAS TX 75261  
USA  
9724062000  
Katherine.bell@alignaero.com

### Ship-To-Party

AVIAL CENTRAL WAREHOUSE  
2750 REGENT BLVD  
DFW AIRPORT TX 75261  
USA

### Information

Packing Slip No.	81462188
Document Date	10/26/2016
Customer PO No.	45490167
Customer PO Date	07/29/2016
Sales Order No.	472776
Sales Order Date	08/16/2016
Customer No.	2004461
Ship Via	Fedex ground
Shipping Conditions	Standard
Incoterms	FOB SHIPPOINT
Delivery Date	11/07/2016
Total Boxes	1
Contact Info.	

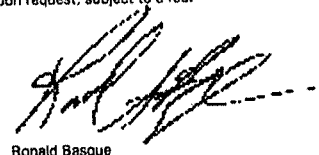
Item	Material/Description	Ordered Qty	Qty Shipped	Balance Due	Weight
	123985630 AS5194D0604 ADAPTER, STRAIGHT Batch 0000126877  Characteristics Cert Code at Batch Level TC Country of origin of material US Manufacturer Name B_EMANUF Vendor Batch Number 20878 Revision of Material in batch B CAGE Code - Ext mfg number C59680	300.00 EA	300.00 EA	0.00 EA	300 LB
<div><div>ITEM AS5194D0604=28  BATCH 7364399283 </div><div>AHENRY 11/03/16</div></div>					

This document shown in US currency. The commodities sold by Align must be exported from USA in accordance with US Export law / regulations. Diversion contrary to USA law is prohibited. Tax ID:

These commodities are subject to U.S. Government ITAR/EAR Regulations. ITAR EXPORTS may not be transferred, transhipped on a non-continuous voyage, or otherwise be disposed of in any other country, either in their original form or after being incorporated into other end-items, without the prior written approval of the U.S. Department of State.

### CERTIFICATE OF CONFORMANCE

The manufacturer has represented products furnished in this shipment as conforming to applicable drawings and specifications. Required supporting evidence is available at Align Aerospace or source of Purchase upon request, subject to a fee.  
DIRECTOR OF QUALITY

  
Ronald Basque



B&E MFG. CO., INC.  
7562 Orangewood Ave.  
Stanton, CA 90680

714/898-2269

# Certificate of Compliance

Sales Invoice 86567

Order Date: 09/20/2016

Printed Date: 09/20/2016

Page: 1

## Ship To:

ALIGN AEROSPACE  
21123 NORDHOFF STREET  
CHATSWORTH, CA 91311

Acct #	Purchase Order	Terms	Ship Via	F.O.B.	Sales Rep	Original SO	
ALI001	4500090850	Net 30 Days	FedEx Ground	Origin	Larry Solinger	SO 43371	
Order Qty	Shipped Qty	U.O.M.	Item Number	Rev	Cust Item	Req. Date	Item Status
1000	1000	EACH	AS5194D0604	B		09/22/2016	Sale
		ADAPTER Flared Tube/Pipe ITEM 12 SHIP ON 09/22/16 OR SOONER CUSTOMER DOCK DATE: 09/23/16 FULL CERTS - CHEM & PHYS C OF C ORDER ACKNOWLEDGEMENT 09/15/16					
		Reference Material 58958					
		Quantity	Lot				
		1,000.00	20878				


ALIGN AEROSPACE  
CERT. ACCEPTANCE  
TC  
SEP 26 2016  
ALIGN 90

B&E Mfg. Co. certifies that the product listed on this document were produced in accordance with all applicable customer and/or government drawings and specifications. The material used to fabricate the product was produced or purchased from sources for which B&E Mfg. Co. has chemical and physical test reports or other evidence of conformance on file and is available for examination.

Material meets DFAR Clause 252.225-7014 Alt 1 and DFAR 252.225-7009 Requirements.

Country of origin U.S.A.

Unless otherwise stated, the above products are free from contact with mercury.

  
Tim Rusk  
QC Manager  
09/20/2016

FORM: QF 72-03-06 REV A

03/02/2015 12:29 FAX 5867835435

Spectrum

0001/0003

## ALTERNATE STRAIGHT BILL OF LADING - SHORT FORM

Original - Not Negotiable

Shipper No. 20456

Date 3/2/2015

CUSTOMER TRUCK

TO:		FROM:		
Consignee B&E MANUFACTURING, INC.		Shipper SPECTRUM METALS, INC.		
Street 7562 ORANGEWOOD		Street 39200 GROESBECK HWY.		
Destination STANTON, CA		Origin CLINTON TWP., MI		
Zip Code 90680		Zip Code 48036		
Route:		FREIGHT CHARGES:		
		Check Appropriate Box: <input type="checkbox"/> Freight Prepaid <input checked="" type="checkbox"/> Collect		
No. Shipping Units	Kind of Packaging, Description of Articles, Special Marks and Exceptions	Weight (Subject to correction)	Rate	Charges (For Carrier use only)
1 BDL	13/16" HEX ALUMINUM 2024T851	68 LBS		
	HEAT# 163112			
	CPO# 58971A			
	PN# AS1037D0606			
1 BDL	1-3/8" HEX ALUMINUM 7075T73	336 LBS		
	HEAT# 155723			
	CPO# 58972			
	PN# MS21916W12-10			
1 BDL	5/8" HEX ALUMINUM 2024T851	283 LBS		
	HEAT# 10104120010-5			
	CPO# 58958	20878		
	PN# AS5194D0604			
1 BDL	11/16" HEX ALUMINUM 2014T651	90 LBS		
	HEAT# 166776			
	CPO# 58960			
	PN# MS9953-04			
NET =		777 LBS		

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of receipt by the carrier of the property described in the Original Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier at all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classifications or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

SHIPPER SPECTRUM METALS, INC.

CARRIER

PER

PER

DATE

Permanent post office address of shipper



# YE FONG ALUMINIUM INDUSTRIAL LTD.

No. 12-10, Dongshi, Dongming Village, Xinwu Township,

Taoyuan County 32747, Taiwan R.O.C.

Tel: +886-3-4773677 Fax: +886-3-4972333 Email: ye-fong@ye-fong.com



## Certificate of Quality

Sold by: Ye Fong Aluminium Industrial Ltd. (MADE IN TAIWAN)

Ship to:

Order No.: D21655

Material: 2024-T851

Lot No.: 10104120010-5

Specification: ASTM-B-211-03; QQA 225/6F; AMS-QQA-225/6A; AMS-4339A

Specification: ASTM-B-211-03; QQA 225/01; AMS QQ-A 225/01											
No.	Contents		Requirement					Unit			
1	Dimension		HX0.6250 in.X144"								
2	Tensile Strength		≥ 66					ksi			
3	Yield Strength		≥ 58					ksi			
4	Elongation		≥ 5					%			
5	Hardness										
6	Electrical Conductivity		35-42.5					%IACS			
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Max	Other Total	Al
	≤0.50	≤0.50	3.80-4.90	0.30-0.90	1.20-1.80	≤0.10	≤0.25	≤0.15	≤0.05	≤0.15	Rem

Remark: We certify that the material is free from mercury contamination.

### Actual Measurement

Actual Measurement					Measurement	Unit					
No.	Contents				HX0.6250 in.X144"						
1	Dimension										
2	Tensile Strength				74.54	ksi					
3	Yield Strength				70.87	ksi					
4	Elongation				11.74	%					
5	Hardness										
6	Electrical Conductivity				39.1	% IACS					
	Si <sup>wt%</sup>	Fe <sup>%</sup>	Cu <sup>wt%</sup>	Mn <sup>%</sup>	Mg <sup>wt%</sup>	Cr <sup>wt%</sup>	Zn <sup>wt%</sup>	Ti <sup>%</sup>	Other Max	Other Total	Al
	0.094	0.185	4.430	0.757	1.500	0.017	0.031	0.019	0.0110	0.0209	Rem

Checked by: B.L. Chang

Date: 14 Jun 2012

Signature: B.L. Chang

Approved by: H.K. Li

Date: 14 Jun 2012

Signature: H.K. Li

Verified by: Y.M. Chang

Date: 14 Jun 2012

Signature: Y.M. Chang

Company Stamp:

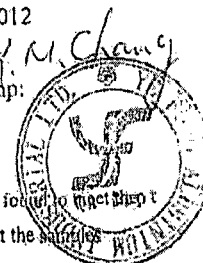
Only Stamped Certificate Valid

### NOTES:

We hereby certify that the material tested in this certificate has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description and that the samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet.

All products manufactured under an ISO-9001 & AS9100 registered quality management system

QP-011-03



20179



Reid Metal Finishing  
3110 West Harvard  
Santa Ana, CA 92704  
Phone: (714) 549-3771  
Fax: (714) 549-3008

## CERTIFICATION

P/L # 123552

06/05/2015

**SOLD TO:**

B & E MFG  
7562 Oranewood Avenue  
Stanton, CA 90680

**SHIP TO:**

B & E MFG.  
7562 Oranewood Avenue  
Stanton CA 90680

Ship: Our Truck

Net 30 Days

UNITS SHIPPED	PART #	DESCRIPTION	PO #	RMF #	REF #
5,114 qty. 0 B/O	AS5194D0604 REV B	ADAPTER	60126	124269	58958/20878

DUPLEX SEAL / TESTED 20 PCS. IAW AS4841A 4.7.1 (DURABILITY OF FINISH TEST)  
PASSED. NO COLOR RUBBED OFF.

WE HEREBY CERTIFY COMPLIANCE TO THE BELOW REFERENCED PROCESS SPECIFICATION(S)

Anodize (Sulfuric) Type II Class 2 Dyed  
REF: MIL-A-8625

Color: BLUE  
Rev: F

O.C. MANAGER:

*Julio Quijor*

Processes are performed by RMF in accordance with the latest revisions or superseding specifications. This certification also meets the requirements for designs and drawings developed under older revisions and/or non-current specifications. An Electro Technologies, Inc., Company.



Visit [eAuditNet.com](http://eAuditNet.com)  
for a list of RMF's approved processes

Logout Nikki Nguyen | FAO

net-inspect

eSource v3.5

Dashboard

Search Inspections

Reports

This inspection is complete.

Shipping Authorization #: **5E64-4ECD-B43C**Inspected By: **Nikki Nguyen**Inspected On: **9/20/2016**

\* Print Shipping Slip



## Completed Inspection



The following is a completed inspection. You cannot edit an inspection after it has been completed

Status: Complete  
 Customer: ALIGN AEROSPACE - CHATSWORTH  
 Supplier: B AND E MANUFACTURING - STANTON

Part #*	<u>AS5194D0604</u>	Dwg. Rev.	B
		Lvl.*	
Commodity	Mechanical	Quantity*	1000
Type	Standard		
	Partial lot/rev's		
Program	N/A	Aog?	False
Code			
Part	N/A		
Description			
PO #*	4500090860	PO Line Number*	12
Customer Planning #	N/A	Cust. Rev. Lvl.	N/A
Supplier Planning #	N/A	Supplier Rev. Lvl.	N/A
Part Serial Its	N/A		
Shipper #*	43371	Shipping Date*	9/20/2016

## Checklist

Status	Time	Question	Answer
saved	1	Does the cart package provided with your order include all the required certifications (e.g. material certs, test reports, process certs, etc.) in order to comply with Align's Purchase Order? (refer to final page of Align PO to view cart requirement narratives)	Yes
saved	2	Does your Certificate of Conformance (C of C) reference the correct Align Purchase Order?	Yes
saved	3	Does your Certificate of Conformance (C of C) identify the revision of the part shipping, and does it match the revision ordered on the Align Purchase Order?	Yes
saved	4	Does the part number on the Certificate of Conformance (C of C) match the part number requested on the Align Purchase Order?	Yes

<http://www.esource-inspect.com/InspectionView.aspx?Inspectio...> 9/20/2016

saved	5	Does the lot/batch number on the Certificate of Conformance (C of C) match the lot/batch number being shipped?	Yes	saved	6
		Does the Certificate of Conformance (C of C) contain the signature, title and date of your company's Quality Representative?	Yes	saved	7
		Are all certifications and reports provided with order completely legible and clear?			
Yes	saved	8	Is the Country of Origin (COO) called out on the Certificate of Conformance (C of C)?		
Yes	saved	9	Is there complete and full traceability from one report and/or certification to the next? Does each report and/or certification list the lot/batch number?		
Yes	saved	10	If applicable on Align Purchase Order, is the material DFAR (Preference for Specialty Metals) complaint, and if so, is the specialty metal DFAR clause 252.225-7009 on your Certificate of Conformance?		
Yes or N/A	saved	11	If applicable, and called out on the Purchase Order, is the AS9102 First Article Report and ballooned drawing included in the shipment?		
Yes or N/A	saved	12	If applicable, does shelf life sensitive material have at least 90% remaining shelf life at the time of shipment?		
Yes or N/A					
saved	13	If applicable, are cure dates and/or expiration dates called out on the Certificate of Conformance (C of C)?	Yes or N/A		
saved	14	Are multiple lots segregated and identified prior to shipping to Align?	Yes or N/A		
saved	15	Are all packaging staples free and contains no FOD in the packaging, box or label? FOD is identified as anything not related to the product called out for on our PO. Note: FOD = Foreign Object Detection	Yes		
FAIR #	N/A	FAIR Date	N/A		
NCR #	N/A	NCR Quantity	N/A		
Notes	N/A				

<http://www.esource-inspect.com/InspectionView.aspx?Inspection...> 9/20/2016



B&E MFG. CO., INC.  
7562 Orangewood Ave.  
Stanton, CA 90680

714/898-2269

# Packing List

Sales Invoice 86567

Order Date: 09/20/2016

Printed Date: 09/20/2016

Page: 1

## Ship To:

ALIGN AEROSPACE  
21123 NORDHOFF STREET  
CHATSWORTH, CA 91311

Acct #	Purchase Order	Terms	Ship Via	F.O.B.	Sales Rep	Original...	
AL1001	4500090850	Net 30 Days	FedEx Ground	Origin	Larry Solinger	SO 43371	
Order Qty	Shipped Qty	U.O.M.	Item Number Description	Rev	Cust Item	Req. Date	Item Status
1000	1000	EACH	AS5194D0604	B		09/21/2016	Sale
ITEM 12 SHIP ON 09/22/16 OR SOONER CUSTOMER DOCK DATE: 09/23/16 FULL CERTS - CHEM & PHYS C OF C ORDER ACKNOWLEDGEMENT 09/15/16							
Reference Material 58958							
*** Tracking No: 777274880794 ***							
		<u>Quantity</u>	<u>Lot</u>				
		1,000.00	20878				


ALIGN AEROSPACE

CERT. ACCEPTANCE

CODE - TC

DATE - SEP 26 2016

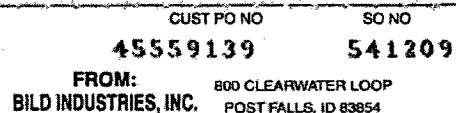
APPROVAL



ALIGN AEROSPACE  
CERT. ACCEPTANCE  
CODE TC  
DATE SEP 26 2016  
APPROVAL



QF 72-03-05-REV A



AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE  
2750 REGENT BOULEVARD  
DFW AIRPORT TX 75261



AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE  
2750 REGENT BOULEVARD  
DFW AIRPORT TX 75261



AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE  
2750 REGENT BOULEVARD  
DFW AIRPORT TX 75261

## CUSTOMER BILL TO ADDRESS

AVIALL SERVICES, INC.  
ATTN. AP DEPT.  
P.O. BOX 619048  
DALLAS TX

TX 752619048

COMPLETE CUSTOMER PO NO.

45559139

**BUYER NAME & PHONE NO.**

**LANA**

BILL TO NO.

SHIP TO NO.

PAGE

AS1007

# INSPECT IMMEDIATELY

[illegible]

ITEM AN4-17A=28



**BATCH 7364441728**



TPHONGSA/VOL.  
12/28/13

### CERTIFICATION OF CONFORMANCE

WE HEREBY CERTIFY THAT THE MERCHANDISE INCLUDED ON THIS PACKING LIST IS IN CONFORMANCE WITH AN-MS-NAS OR APPLICABLE SPECIFICATIONS AND OR DRAWINGS.

CAGE CODE 31222

DEC 14 2016

QUALITY CONTROL MANAGER

DATE SHIPPED

SHIPPED VIA

SIGNATURE - MERCHANDISE RECEIVED

P = PARTIAL  
C = COMPLETE  
CC = CONSIDER COMPLETE  
CX = CANCEL

TOTAL WT

**NO CTNS**



100

\_\_\_\_\_

CX = CANCEL

11

1

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

**CUSTOMER: BILD INDUSTRIES**

**PO: 85947**

**PART NUMBER: AN4-17A**

**REV: 3**

**LOT NUMBER: 77036**

**MANUFACTURED QUANTITY: 28,900**

**MILL HEAT NUMBER: 8174659**

**COUNTRY OF ORIGIN: UNITED STATES OF AMERICA**

**DFARS 252.225.7009 Compliant**

**MERCURY FREE CERTIFICATION**

MacFasteners certifies that the parts referenced in the above lot number  
do not contain Mercury or Mercury compounds, and were  
manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC  
FASTENERS within the United States, and were processed in accordance with all applicable drawings and  
specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4  
Mac Fasteners is an Airbus approved Supplier - 203399

**DATE: 08/18/15**

  
**QUALITY ASSURANCE REPRESENTATIVE**



CUST PO NO \*0045506348 SO NO 535944  
 FROM: BILD INDUSTRIES, INC. 800 CLEARWATER LOOP  
 POST FALLS, ID 83854



CUST PO NO \*0045506348 SO NO 535944  
 FROM: BILD INDUSTRIES, INC. 800 CLEARWATER LOOP  
 POST FALLS, ID 83854



CUST PO NO \*0045506348 SO NO 535944  
 FROM: BILD INDUSTRIES, INC. 800 CLEARWATER LOOP  
 POST FALLS, ID 83854

SHIP TO

AVIALL SERVICES, INC.  
 AVIALL CENTRAL WAREHOUSE  
 2750 REGENT BOULEVARD  
 DFW AIRPORT TX 75261

SHIP TO

AVIALL SERVICES, INC.  
 AVIALL CENTRAL WAREHOUSE  
 2750 REGENT BOULEVARD  
 DFW AIRPORT TX 75261

SHIP TO

AVIALL SERVICES, INC.  
 AVIALL CENTRAL WAREHOUSE  
 2750 REGENT BOULEVARD  
 DFW AIRPORT TX 75261

CUSTOMER BILL TO ADDRESS

AVIALL SERVICES, INC.  
 ATTN. AP DEPT.  
 P.O. BOX 619048  
 DALLAS TX 752619048

COMPLETE CUSTOMER PO NO.

\*0045506348

BUYER NAME & PHONE NO.

EDI

BILL TO NO.

SHIP TO NO.

PAGE

ASI007

PACKING SLIP

INSPECT IMMEDIATELY

LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
1	AI	1750	1750	86676178479 AN5-6A	*004550634	ASI007	BOLT EX2-33-24
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
2		1	1	S/C MANUFACTURE CERT	*004550634	ASI007	CERTIFICATION
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
3		1	1	COUNTRY OF ORIGIN	*004550634	ASI007	
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION

ITEM AN5-6A=28



BATCH 7364365864



ICHISM  
 09/22/16

CERTIFICATION OF CONFORMANCE

WE HEREBY CERTIFY THAT THE MERCHANDISE INCLUDED ON THIS PACKING LIST IS IN CONFORMANCE WITH AN-MS-NAS OR APPLICABLE SPECIFICATIONS AND OR DRAWINGS.

CAGE CODE 31222

DATE

SEP 14 2016

QUALITY CONTROL MANAGER

DATE SHIPPED

SHIPPED VIA

SIGNATURE - MERCHANDISE RECEIVED

X

Thank you for your order

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: BILD INDUSTRIES

PO: 86676

PART NUMBER: AN5-6A

REV: 3

LOT NUMBER: 78479

MANUFACTURED QUANTITY: 29,000

MILL HEAT NUMBER: 8198842

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

**MERCURY FREE CERTIFICATION**

MacFasteners certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4  
Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 10/20/15

  
QUALITY ASSURANCE REPRESENTATIVE





CUST PO NO SO NO  
**\*0045506348 535944**  
 FROM: 800 CLEARWATER LOOP  
 BILD INDUSTRIES, INC. POST FALLS, ID 83654



CUST PO NO SO NO  
**\*0045506348 535944**  
 FROM: 800 CLEARWATER LOOP  
 BILD INDUSTRIES, INC. POST FALLS, ID 83654



CUST PO NO SO NO  
**\*0045506348 535944**  
 FROM: 800 CLEARWATER LOOP  
 BILD INDUSTRIES, INC. POST FALLS, ID 83654

SHIP TO

AVIALL SERVICES, INC.  
 AVIALL CENTRAL WAREHOUSE  
 2750 REGENT BOULEVARD  
 DFW AIRPORT TX 75261

SHIP TO

AVIALL SERVICES, INC.  
 AVIALL CENTRAL WAREHOUSE  
 2750 REGENT BOULEVARD  
 DFW AIRPORT TX 75261

SHIP TO

AVIALL SERVICES, INC.  
 AVIALL CENTRAL WAREHOUSE  
 2750 REGENT BOULEVARD  
 DFW AIRPORT TX 75261

CUSTOMER BILL TO ADDRESS

AVIALL SERVICES, INC.  
 ATTN. AP DEPT.  
 P.O. BOX 619048  
 DALLAS TX 752619048

COMPLETE CUSTOMER PO NO.

\*0045506348

BUYER NAME & PHONE NO.

EDI

BILL TO NO.

SHIP TO NO.

PAGE

ASI007

**PACKING SLIP**

**INSPECT IMMEDIATELY**

LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
1	A	1750	1750	86676178479 CAN5-6A	*004550634	ASI007	BOLT EX2-33-26
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
2		1	1	S/C MANUFACTURE CERT	*004550634	ASI007	CERTIFICATION 10 PER
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
3		1	1	COUNTRY OF ORIGIN	*004550634	ASI007	
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION

ITEM AN5-6A=28



BATCH 7364365864



ICHISM  
 09/22/16

CERTIFICATION OF CONFORMANCE

WE HEREBY CERTIFY THAT THE MERCHANDISE INCLUDED ON THIS PACKING LIST IS IN CONFORMANCE WITH AN-MS-NAS OR APPLICABLE SPECIFICATIONS AND OR DRAWINGS.

CAGE CODE 31222

DATE

SEP 14 2016

QUALITY CONTROL MANAGER

*Paula K. Jensen*

DATE SHIPPED

SHIPPED VIA

SIGNATURE - MERCHANDISE RECEIVED

X

*Thank you for your order*

AVIALL

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

**CUSTOMER: BILD INDUSTRIES**

**PO: 86676**

**PART NUMBER: AN5-6A**

**REV: 3**

**LOT NUMBER: 78479**

**MANUFACTURED QUANTITY: 29,000**

**MILL HEAT NUMBER: 8198842**

**COUNTRY OF ORIGIN: UNITED STATES OF AMERICA**

**DFARS 252.225.7009 Compliant**

**MERCURY FREE CERTIFICATION**

MacFasteners certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4  
Mac Fasteners is an Airbus approved Supplier - 203399

**DATE: 10/20/15**

  
**QUALITY ASSURANCE REPRESENTATIVE**



**AERO-GLEN**  
INTERNATIONAL LLC  
COMMITMENT | EXECUTION | RESULTS

1160 MUSTANG DR. SUITE 300  
DFW AIRPORT, TX 75261  
TEL: (817) 328-6600 FAX (972) 456-1015  
WWW.AEROGLEN.COM  
CAGE CODE 9V172  
ISO9001 / AS9100 / AS9120 REGISTERED  
PRI CERTIFICATION: 14-2127, 14-2128R

## PACKING SLIP

Print Date : Oct-04-2016 7:03 AM

Printed By: WBSH Print No. : 2

**No. 090996**

Pg: 1/1


**Ship To : [1]**

AVIALL CENTRAL WAREHOUSE  
Attn: RECEIVING DEPT.  
2750 REGENT BOULEVARD  
DFW Airport, TX 75261  
UNITED STATES  
Tel. : 972-586-1994

**For : Account No. [AVIALL-DALLA]**

AVIALL  
Attn: SEDRICK CLARK  
2700 Regent Blvd  
DFW Airport, TX 75261  
UNITED STATES  
Tel. : 972-586-1994

S.O. No. : 063491	Our Ref :	Domestic AW :
Cust P.O. : 0045497251	Your Ref :	Int'l AWB :
Picked On : Sep-30-2016	Spec Inst :	Origin :
Shipped On : Oct-03-2016	Contract :	Transpor :
Ship Via : DROP OFF	Lic No. :	Nationali :
F.O.B. : DESTINATION	Expires :	Trip/Flig :
Terms : NET 30		
Our Contact : MERLE LANGTON		

Line	P/N & Description	Cn	Ordered	Qty Shipped	Back Order	Packaging
1	AN818-8D UID379988  Rev: 20 Note: NUT: COUPLING,AL PG:5 PER LOT #: 9236 REV: 20 MFG: INLAND CAGE CODE: 6W617 MATL TYPE: ALUMINUM Country Of Origin: USA	ND1	1,000.00	1,000.00 EA	0.00	
UNLESS NOTED ON THE FACE HEREOF, ANY AND ALL MATERIALS/PARTS SUPPLIED ON THIS S.O./P.O. MAY NOT BE DFARS 252.22-7014 ALT. 1 COMPLIANT. AERO-GLEN, INTL., GRAPEVINE, TX., USA, WILL NOT BE HELD IN VIOLATION OF THE DFARS/SPECIALTY MATERIAL REQUIREMENT. THE COMMODITIES SOLD BY AERO-GLEN, INTL., MUST BE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH ALL U.S. EXPORT LAWS. ANY DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.						

ITEM AN818-8D = 28



BATCH 7364378366



**BHORTON**  
10/07/16

CUSTOMER COPY

Copyright (c) PENTAGON2000 Software, Inc.  
Ser 4:[2000.21075] Ver 9.00.03 Build 29

# Inland Machine Co.

10782 EDISON CT.  
RANCHO CUCAMONGA, CA 91730  
Ph: (909)484-5579, Fax: (909)484-4825, Email:  
INLANDMACHINECOMPANY.COM

## Invoice

**To:**  
AERO-GLEN INTERNATIONAL, LLC  
PO BOX 878  
GRAPEVINE, TX 76099-0878

**Ship To:**  
AERO-GLEN INTERNATIONAL, LLC  
1160 MUSTANG DR  
SUITE 300  
DFW INTERNATIONAL AIRPORT,  
DALLAS, TX 75261

Invoice Date: 8/19/2016      Terms: 2 % 10 NET 30  
Order Date: 8/18/2016      Cust. PO#: 034829  
Ship Date: 8/19/2016      FOB:  
Sales Order: 034829      Buyer:  
Customer #: AGNY

Weight:  
# of Boxes:  
Shipment #: 1

Ship Via: FED EX GRND CO.  
Ship Via Acc: 567863034  
Invoice #: 48748

Item	Part Number/Description	Shipped	BackOrd	CD	Unit Price	Total Amt
------	-------------------------	---------	---------	----	------------	-----------

1	AN818-8D NUT REV.20 / 2 FULL CERTS JOB# 9238 MADE IN USA	5000	0	NE		
---	---	------	---	----	--	--

**CERTIFICATION OF CONFORMANCE:**  
THIS IS TO CERTIFY THAT ALL ARTICLES DELIVERED UNDER THIS  
SHIPPER, CONFORMS TO ALL APPLICABLE BLUE PRINT SPECIFICATIONS.  
EVIDENCE OF SUCH IS ON FILE, SUBJECT TO EXAMINATION.

ALL PARTS ARE MANUFACTURED IN A MERCURY FREE ENVIRONMENT

Form created with Quantum Control Technology. Product

It is agreed by buyer that upon delivery of parts, said will be inspected and that if any parts are defective buyer agrees to notify seller within ten (10) days



CUST PO NO 0045511474 SO NO 536979  
FROM: 800 CLEARWATER LOOP  
BILD INDUSTRIES, INC. POST FALLS, ID 83854



CUST PO NO 0045511474 SO NO 536979  
FROM: 800 CLEARWATER LOOP  
BILD INDUSTRIES, INC. POST FALLS, ID 83854



CUST PO NO 0045511474 SO NO 536979  
FROM: 800 CLEARWATER LOOP  
BILD INDUSTRIES, INC. POST FALLS, ID 83854

AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE  
2750 REGENT BOULEVARD  
DFW AIRPORT TX 75261

AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE  
2750 REGENT BOULEVARD  
DFW AIRPORT TX 75261

AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE  
2750 REGENT BOULEVARD  
DFW AIRPORT TX 75261

# CUSTOMER BILL TO ADDRESS

AVIALL SERVICES, INC.  
ATTN. AP DEPT.  
P.O. BOX 619048  
DALLAS TX 752619048

# COMPLETE CUSTOMER PO NO.

0045511474

# BUYER NAME & PHONE NO.

EDI

# BILL TO NO.

# SHIP TO NO.

ASI007

# PAGE

LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
1		15000	17900	See 3 Lots HS20002C6	0045511474	ASI007	WASHER bx52=42
2		1	1	LOT 75525/V9273=200 86926/5A4671=2700 86927/29130=5000 S/C MANUFACTURE CERT	0045511474	ASI007	CERTIFICATION
3		1	1	LOT USA 113619 COUNTRY OF ORIGIN	0045511474	ASI007	
4		1	0	S/C MANUFACTURE CERT	0045511474	ASI007	CERTIFICATION
5		1	0	COUNTRY OF ORIGIN	0045511474	ASI007	

ITEM MS20002C6=28



BATCH 7364369281



SPHOMVILAY  
09/28/16

# CERTIFICATION OF CONFORMANCE

WE HEREBY CERTIFY THAT THE MERCHANDISE INCLUDED ON THIS PACKING LIST IS IN CONFORMANCE WITH AN-MS-NAS OR APPLICABLE SPECIFICATIONS AND OR DRAWINGS.

CAGE CODE 31222

DATE SEP 21 2016

QUALITY CONTROL MANAGER

DATE SHIPPED

SHIPPED VIA

SIGNATURE - MERCHANDISE RECEIVED

TOTAL WT

NO CTNS

P = PARTIAL  
C = COMPLETE  
CC = CONSIDER COMPLETE  
CX = CANCEL

DATE SHIPPED

SHIPPED VIA

X

AVIALL - TRUE CERTIFIED COPY 03/17/2017 Ship #: 8004232179 Line: 9017364369281 QTY: 100 CPO: 3555

**ANILLO Industries, Inc.**

2090 NORTH GLASSELL STREET, ORANGE, CA 92665-3391 USA  
PLEASE REMIT TO  
P.O. BOX 5586 ORANGE, CA 92663-5586 USA  
(714)837-7000 (562)924-8832 FAX(714) 837-3022 CAGE CODE: 10630

**599875****Packing List & Certification**

WE ACCEPT  
VISA/MASTER/DISCOVER/AMEX

<b>SOLD TO</b> BILD INDUSTRIES, INC. ATTN: ACCOUNTS PAYABLE DEPT. 800 S CLEARWATER LOOP POST FALLS, ID 83854	<b>1215</b>	<b>SHIP TO</b> BILD INDUSTRIES, INC. 800 S CLEARWATER LOOP POST FALLS, ID 83854	<b>A</b>
--	-------------	--	----------

DATE ORDER REC'D <b>04/15/2015</b>	ORDER NUMBER <b>86927</b>	INVOICE DATE	SHIPPED VIA <b>DIVERSIFIED TRS</b>	TERMS 1% 10 DAYS, NET 30
ITEM	ORDERED	SHIPPED	DESCRIPTION	NET WEIGHT

2 5,000 **5000** **MS20002C6**  
REV 3 /LOT#Y9130 /QCR:1,4,6,8,16,17,  
ECCN: 9A991 Schedule B#: 7318.22.0000 COO: USNLR

We certify that: 1. Item number 2 above is manufactured in accordance with the material and processing specifications of this order.  
2. We certify that the material on this order conforms in all respects to the current applicable government and/or manufacturer's specification. Test reports are on file and are available for examination on all Anillo manufactured parts. All claims for errors or shortages must be made within 10 days after receipt of goods.  
No good to be returned without written authorization. All claims for defective material must filed within 30 days of shipment to receive consideration. We do not assume financial responsibility or liability from the use of products sold, other than the replacement value of the products sold, if claimed within the specified time limit above.

&lt;&lt; R.M.A.# REQUIRED FOR RETURNS &gt;&gt;

&lt;&lt; TO THE BEST OF OUR KNOWLEDGE, PARTS ARE MERCURY FREE &gt;&gt;

**Certification**

STAMP

DATE **OCT 02 2015**

USED LOT# SA4523 TO  
MANUFACTURE LOT# Y9130

Anillo Industries Inc. certifies that  
lot number SA4523, part number  
MS20002C6, manufactured to revision  
2 has been reviewed and found to  
meet the requirements of revision 3.

BY Ben Omidwar  
Ben Omidwar, Quality Assurance Manager

FI 4.03.05



2655 Harrison Ave SW  
Canton, OH 44706  
Ph: 330-430-6190, Fax: 330-430-6199,

# Packing Slip Original

Invoice #: 146802

Invoice Date: 10/10/2016

Time: 1:50:11 PM

Page: 1

**To:**  
AVIAL AEROSPACE TEXAS  
PO BOX 619048  
DFW AIRPORT  
DALLAS, TX 75261-0000  
USA  
ATTN: REJOE JACOB  
Ph: 972-586-1903 Fax: 972-586-7995

**Ship To:**  
AVIAL AEROSPACE TEXAS  
2750 REGENT BLVD.  
DFW AIRPORT  
DALLAS, TX 75261-0000

Cust. PO#: 45502809

Order Date: 8/22/2016

Prepared By:

Customer #: 15195

Buyer: REJOE JACOB

WO #:

Terms: NET 30

# of Items: 4

Sales Order: 120338

VAT #:

FOB:

Ship Via: FED EX MOTOR FRESHip Via Acc:

# of Boxes: 25

Ship Log #: 1

Cust VAT #:

AWB:

Weight: 680

Ship Order:

Ship Date: 10/10/2016

Shipment:

Item	Part Number/Description	Shipped	BackOrd	CD	List Price	Disc	Unit Price	UOM	Total Amt
1	AN4-13A BOLT, AN Loc/Whse: 3A4 3C8 Control #: 14259-2 L-25155 50 PER PACK	6500	0	NE				EA	
2	AN5-35A BOLT, AN Loc/Whse: 4F5 4F6 Control #: 14949-2 L-25346 5 PER PACK	2000	0	NE				EA	
3	AN6-22A BOLT, AN Loc/Whse: 9D3 9F4 Control #: 139431-1 L-14925 5 PER PACK	450	0	NE				EA	
4	MS21042-5 NUT LOCKING, MS Loc/Whse: 6A4	10000	0	NE				EA	

C OF C C ENCLOSED

25 BOXES 680 LBS

INV# 146801/146802/146803/146804 ARE SHIPPING TOGETHER

PARTS MANUFACTURED IN THE USA!!

THANK YOU!

Special Instructions:

ITEM AN4 - 13A = 28



BATCH 7364385613



LCOLLINS  
10/17/16

Authorized Signature:



2655 Harrison Ave SW  
Canton, OH 44706  
Ph: 330-430-6190, Fax: 330-430-6199,

# Packing Slip Original

Invoice #: 146802  
Invoice Date: 10/10/2016  
Time: 1:50:12 PM  
Page: 2

**To:**  
AVIALLAEROSPACE TEXAS  
PO BOX 619048  
DFW AIRPORT  
DALLAS, TX 75261-0000  
USA  
ATTN: REJOE JACOB  
Ph: 972-586-1903 Fax: 972-586-7995

**Ship To:**  
AVIALLAEROSPACE TEXAS  
2750 REGENT BLVD.  
DFW AIRPORT  
DALLAS, TX 75261-0000

Cust. PO#: 45502809

Terms: NET 30

Ship Via: FED EX MOTOR FRESHip Via Acc:

Order Date: 8/22/2016

# of Items: 4

# of Boxes: 25

Weight: 680

Prepared By:

Sales Order: 120338

Ship Log #: 1

Ship Order:

Customer #: 15195

VAT #:

Cust VAT #:

Ship Date: 10/10/2016

Buyer: REJOE JACOB

FOB:

AWB:

Shipment:

WO #:

Item	Part Number/Description	Shipped	BackOrd	CD	List Price	Disc	Unit Price	UOM	Total Amt
	Control #: 153258-1 L-25010 25 PER PACK LETTER								

C OF C C ENCLOSED  
25 BOXES 680 LBS  
INV# 146801/146802/146803/146804 ARE SHIPPING TOGETHER  
PARTS MANUFACTURED IN THE USA!!  
THANK YOU!

Special Instructions:

Authorized Signature:





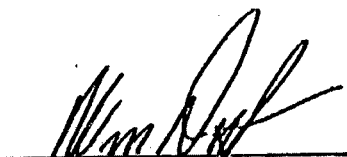
2655 Harrison Ave. SW  
Canton, Ohio 44706-3047  
Phone: 330-430-6190  
Fax: 330-430-6199

**CERTIFICATE OF CONFORMANCE**

**AVIALL AEROSPACE**

I hereby certify that on 10/10/16 Airfasco Industries provided the supplies called for by Contract/ PO Number **45502809** in accordance with all applicable requirements for shipment. I further state/ that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States.

Quality Assurance Representative

  
WM. DENT

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN4-13A	25155	6500	AN5-35A	25346	2000
AN6-22A	14925	450	MS21042-5	25010	10000



2655 Harrison Ave SW  
Canton, OH 44706  
Ph: 330-430-6190, Fax: 330-430-6199,

## Packing Slip

Original

Invoice #: 147015

Invoice Date: 10/26/2016

Time: 2:40:07 PM

Page: 1

### To:

AVIALL AEROSPACE TEXAS  
PO BOX 619048  
DFW AIRPORT  
DALLAS, TX 75261-0000  
USA  
ATTN: REJOE JACOB  
Ph: 972-586-1903 Fax: 972-586-7995

### Ship To:

AVIALL AEROSPACE TEXAS  
2750 REGENT BLVD.  
DFW AIRPORT  
DALLAS, TX 75261-0000

Cust. PO#: 45513903

Order Date: 9/14/2016

Prepared By:

Customer #: 15195

Buyer: REJOE JACOB

WO #:

Terms: NET 30

# of Items: 1

Sales Order: 120558

VAT #:

FOB:

Ship Via: FED EX MOTOR FRESHip Via Acc:

Weight: 221

# of Boxes: 12

Ship Log #: 1

Cust VAT #:

AWB:

Ship Order:

Ship Date: 10/26/2016

Shipment:

Item	Part Number/Description	Shipped	BackOrd	CD	List Price	Disc	Unit Price	UOM	Total Amt
1	MS21042L3 NUT, MS Loc/Whse: Control #: 154445-1 L-25052  LETTER  1. 100 PC PER PACK	50000	0	NE				EA	

ITEM MS21042L3=28



BATCH 7364396136



TPHONGS  
10/31/16

C OF C C ENCLOSED  
12 BOXES 221 LBS  
INV# 147013/147014/147015/147016 ARE SHIPPING TOGETHER  
PARTS MANUFACTURED IN THE USA!!  
THANK YOU!

Special Instructions:

Authorized Signature:

- B. Use: The specifications for the Nuts were intended for weight saving applications. Thus, the Nuts have relatively thin walls. See referenced least material condition (LMC) drawing attached for size purchased. The nuts have defined limitations per NASM33588, MS21042 note 3 and are not designed and manufactured for use in/for critical applications. There are many alternate forms of hardware choices that are designed, manufactured and suitable for critical applications. While Airfasco does not advise and/or recommend the use of the Nuts for critical applications (and contrarily advises/recommends that the Nuts not be used for critical applications) certainly should Buyer (or any end user(s)) choose to use the Nuts for critical applications, Buyer (and/or any end user(s)) should (at a minimum) obtain one hundred percent (100%) NDT, C=0 inspection, ("Inspection"), of all Nuts (and reject any Nuts having any imperfection(s)). Buyer (and any end user(s)) wholly assume any and all risks of the failure of any Nuts if and/or where the Nuts are or will be used in/for critical applications.
- C. Inspection: Airfasco does offer and can provide 100% NDT Inspection of/for the Nuts (at an additional cost) if Buyer (and or any end user(s)) want to order/obtain such Inspection. Buyer (and/or any end user(s)) wholly assume any and all risks of the failure(s) of any Nuts for any use(s)/application(s) unless Buyer (or any end user(s)) obtain the Inspection. Airfasco does perform the sample lot inspections as required per the specifications.
- D. Technical Quality Notice Bulletin: Attached hereto is the Technical Quality Notice Bulletin, ("Bulletin"), that Airfasco has published relative to the Nuts (and/or similar hardware) which identifies and addresses issues of importance/ concern. Buyer (and any end user(s)) need to carefully review the Bulletin.

Airfasco manufactured the Nuts pursuant to applicable specifications. The NASM33588 and AFC33588 specification for the Nuts do not contemplate or intend:

- (1) The use of the Nuts in critical applications (and certainly not the "re-use(s)" thereof); and/or,
- (2) The use of anything excepting for calibrated hand tools to install (or remove) the Nuts.



2655 Harrison Ave SW  
Canton, Oh. 44708  
(330)430-8190 Office  
(330)430-6189 Fax  
[www.Airfasco.com](http://www.Airfasco.com)

August 20, 2012

**TECHNICAL QUALITY NOTICE BULLETIN MS21042 & NAS1291 450 F STEEL:**  
**(THIN WALL, LIGHTWEIGHT HEX FLANGE NUTS)**

The MS21042 and NAS1291 steel design is a very thin wall, lightweight hex flange design (LMC drawings attached) along with the wide range of available torque values and high tensile heat treat values. These nuts are susceptible to galling and post torque ductile overload failure. We have seen the use of high speed RPM air assembly tools which increase the galling process. The steel MS21042 450 F nuts have a higher axial strength pound minimum requirement from the procurement standard of 125,000 PSI minimum per NASM25027.

Through our customers, Airfasco has become aware that a few MS21042 and NAS1291 steel nuts have cracked. Other manufacturers of nuts have had similar reports. Airfasco has not verified the installation or the class 3A thread pitch diameter of the male mate(s) and has not confirmed whether the failure resulted from high over values from galling leading to ductile failure from installation. The customer's evaluation and analysis reflected classic failures of hydrogen embrittlement (HE). Hydrogen assisted cracking (HAC) of alloy steel, high tensile strength and electrodeposited cadmium plated hardware has been an ongoing quality issue in the industry for over 50 years.

The specifications for the nuts were intended for weight saving applications and have relatively thin walls. This design series of nuts have defined limitations per AFC33588 and referenced NASM33588, MS21042 note 3 for critical applications. Many alternate forms of hardware choices that are designed, manufactured and suitable for critical applications. Airfasco has published a "Reliability, Usage, Weight and Least Material Condition (LMC) selection guide. The original nut this series replaced was the NAS679, 125,000 PSI minimum which was only intended primarily for shear applications. The MS21042 and NAS1291 steel thin wall hex flange nut was designed for a replacement with a higher axial tensile strength for both shear and tensile applications.

Designers and Engineers are advised to check with Airfasco to determine availability of torque value ranges and hardness ranges along with new improved technical designs for special applications to improve the use of these nuts. Airfasco has authorized distributors that offer managed inventory programs for OEM's.

Before installation, verify a torque test for 1 week, a quantity of 1% or 20 nuts, whichever is less and assure the correct pitch diameter of the male mate(s), the appropriate assembly torque range and the hardness of the male mate(s). Assemble using calibrated hand tools as RPM speed and torque pressures of air tools can readily gall and damage the nuts if out of calibration tools are used.

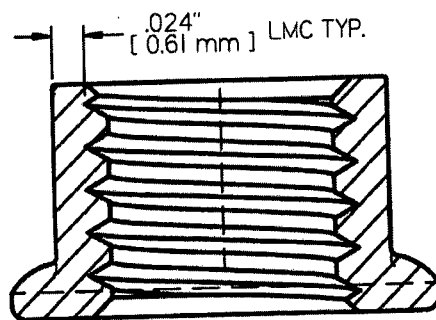
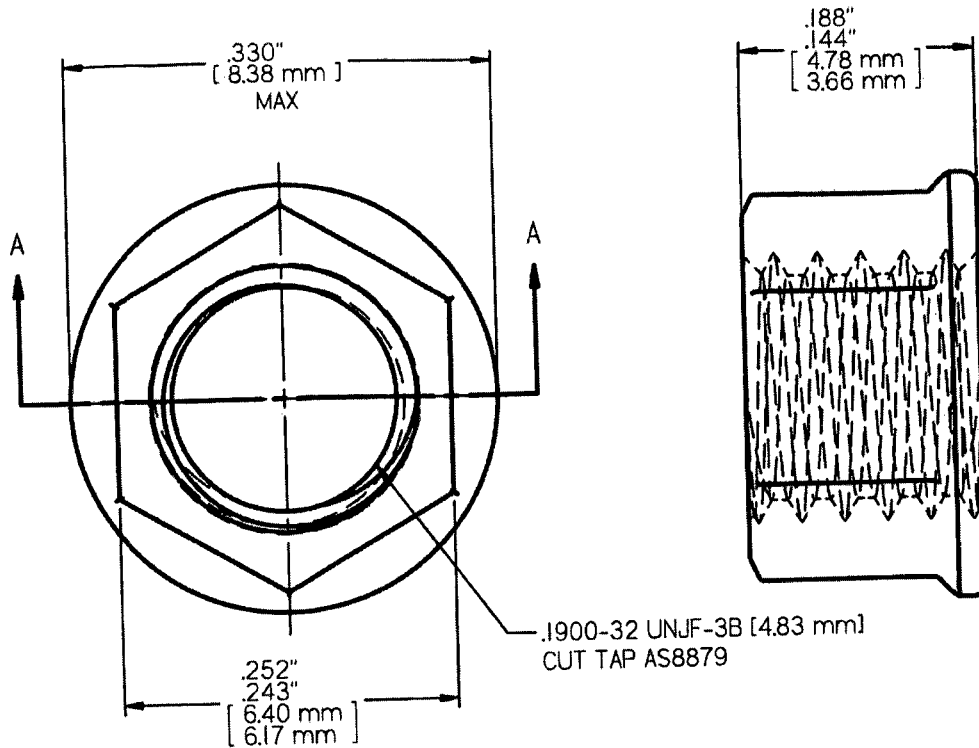
With reported problems from various manufacturers we feel there are many variables that can cause these problems. The use of out of calibrated hand tools or the use of high RPM assembly of non calibrated lower cost air tools without certified regulated air pressure can readily gall and damage the nuts. If too long of a bolt or screw with a shoulder is used this can create a wedge effect and crack the nut. A high 3A pitch diameter makes for a zero clearance between mating threads and can cause galling during assembly with failure due to over torque or ductile failure. We do recommend anti-galling compound to the male threads prior to assembly per SAE J2270. This will slow the tightening process since increased speeds generate greater heat from friction and heat accelerates the "cold weld" process. We feel the use of lower torque nuts may help this problem and we have attached drawings in the report.

MS21043 and NAS1291C stainless A286 nuts of the same thin wall, light exact design and weight have lower axial tensile strengths of 125,000 PSI minimum and should be considered when design application permits. NAS1291- Rev 13 steel sizes less than .375-24" (9.525 mm) and under axial tensile strengths are crossed off the current drawing and inactive for new design. Airfasco has published a design selection guide referencing the different thread sizes, weights, torque value ranges, axial tensile strength, plating finishes and least material condition (LMC). An illustration of all the sizes for least material condition (LMC) is attached for reference.

Airfasco has designed a hydrogen embrittlement negative (HEN) series of the MS21042 and NAS1291 450 F steel thin walled hex flange nut that is a cadmium replacement, RoHS and REACH compliant finish. The nut meets all the physical, chemical and mechanical properties of the specification except for the improved finish which far exceeds the cadmium salt spray requirements. Totally chrome free finish that exceeds > 2,000 hours salt spray corrosion. The process is a thermal diffusion coating (TDC) at 400 C (752 F) which eliminates any chances of hydrogen embrittlement by process application per ASTM A1059. This finish has the same friction factor (K) as cadmium and provides the same natural lubricant for installation assembling and removal.

Key Words: ASTM A1059 Standard for Zinc Alloy Thermo-Diffusion Coatings (TDC) on Steel Fasteners, European Chemicals Health Agency (ECHA), Hydrogen Assisted Cracking (HAC), Hydrogen Embrittlement (HE), Hydrogen Embrittlement Negative (HEN), Hydrogen Embrittlement Wedge Testing (HEWT), Least Material Condition (LMC), Lower Torque (LT), NASM25027 PROCUREMENT SPECIFICATION, NASM33588 USAGE LIMITATION RELIABILITY REQUIREMENTS, Non Destructive Testing (NDT), Registration Evaluation Authorization and Restriction of Chemical (REACH), Restriction of Hazardous Substances (RoHS), Substance of Very High Concern (SVHC), Thermal Diffusion Coating (TDC), Weight to Weight (W/W).

Please contact Dennis Dent [Dennis.Dent@Airfasco.com](mailto:Dennis.Dent@Airfasco.com) if you have any questions or need any additional information or assistance.



SECTION A-A  
8X SCALE



THIN WALLED NUTS ARE DESIGNED FOR WEIGHT SAVING APPLICATIONS. THEY ARE SUBJECT TO THE LIMITATIONS OF NASM33588 AND AFC33588. THEY ARE NOT FOR CRITICAL APPLICATIONS.

AXIAL STRENGTH: 3,470 LBS. MIN.

## LEAST MATERIAL CONDITION (LMC) ILLUSTRATION

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND TOLERANCES ARE AS SHOWN BELOW. DIMENSIONAL TOLERANCES AND SYMBOLS PER ANSI Y14.5M-1982	PROPRIETARY PARTS SHOWN IN THIS DRAWING ARE THE SUBJECT OF ISSUED UNITED STATES AND FOREIGN PATENTS AND PATENTS PENDING. UNAUTHORIZED REPRODUCTION AND/OR DISTRIBUTION OF THIS DRAWING IS STRICTLY PROHIBITED.			<b>AIRFASCO INDUSTRIES</b> FASTENER GROUP, 2655 HARRISON AVE SW, CANTON, OHIO USA		
	APPROVALS		DATE	PART NUMBER: MS21042L3 LOCK NUT		REV
	DRAWN	C.D.	01/10/12	SIZE A	DIMENSIONS IN BRACKETS ARE IN MILLIMETERS & GRAMS	WEIGHT: .0018 / EA LBS. (.82g)
	CHECKED	T.W.	01/10/12			
	ENG APPR	BE	01/10/12			
ANGLES ±1°	MGR APPR	D.D.	01/10/12	SCALE: 8:1	DRAWING NUMBER: MS21042L3 LMC	SHEET 1 OF 1
XX ±.03"						
XXX ±.010"						
XXXX ±.001"						

AIRFASCO®

Print drawings from <http://www.airfasco.com/drawings>

AIRFASCO®



2655 Harrison Ave SW  
Canton, OH 44706  
Ph: 330-430-6190, Fax: 330-430-6199

# Packing Slip Original

Invoice #: 146937

Invoice Date: 10/19/2016

Time: 2:01:28 PM

Page: 1

## To:

AVIALLAEROSPACE TEXAS

PO BOX 619048

DFW AIRPORT

DALLAS, TX 75261-0000

USA

ATTN: REJOE JACOB

Ph: 972-586-1903 Fax: 972-586-7995

## Ship To:

AVIALLAEROSPACE TEXAS

2750 REGENT BLVD.

DFW AIRPORT

DALLAS, TX 75261-0000

Cust. PO#: 45504594

Terms: NET 30

Ship Via: FEDEX GROUND

Ship Via Acc: 123985630

Order Date: 8/25/2016

# of Items: 1

# of Boxes: 1

Weight: 46

Prepared By:

Sales Order: 120381

Ship Log #: 1

Ship Order:

Customer #: 15195

VAT #:

Cust VAT #:

Ship Date: 10/19/2016

Buyer: REJOE JACOB

FOB:

AWB:

Shipment:

WO #:

Item	Part Number/Description	Shipped	BackOrd	CD	L			UOM
1	AN6-35A BOLT, AN Loc/Whse: 9C3 9A3 Control #: 11715-2 L-22732  10 PC PER PACK	350	0	NE				EA

ITEM AN6-35A = 28

BATCH 7364390216

AHENRY  
10/24/16

C OF C C ENCLOSED

1 BOX 46 LBS

PARTS MANUFACTURED IN THE USA!!

THANK YOU!

Special Instructions:

Authorized Signature:



2655 Harrison Ave. SW  
Canton, Ohio 44706-3047  
Phone: 330-430-6190  
Fax: 330-430-6199

**CERTIFICATE OF CONFORMANCE**

**AVIALL AEROSPACE**

I hereby certify that on 10/19/16 Airfasco Industries provided the supplies called for by Contract/  
PO Number 45504594 in accordance with all applicable requirements for shipment. I further  
state/ that the process certifications are in conformance with the contract requirements, including  
specifications and/or drawings, physical item identification (part number) and the quantity shown  
on this or attached acceptance document. The part numbers certified below have been  
manufactured in the United States.

Quality Assurance Representative

  
WM. DENT

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN6-35A	22732	350			





2655 Harrison Ave SW  
Canton, OH 44706  
Ph: 330-430-6190, Fax: 330-430-6199,

## Packing Slip Original

**Invoice #: 147551**

**Invoice Date: 12/2/2016**

**Time: 2:24:33 PM**

**Page: 1**

### To:

AVIALL AEROSPACE TEXAS  
PO BOX 619048  
DFW AIRPORT  
DALLAS, TX 75261-0000  
USA  
ATTN: REJOE JACOB  
Ph: 972-586-1903 Fax: 972-586-7995

### Ship To:

AVIALL AEROSPACE TEXAS  
2750 REGENT BLVD.  
DFW AIRPORT  
DALLAS, TX 75261-0000

**Cust. PO#: 45556762**

**Order Date: 12/1/2016**

**Prepared By:**

**Customer #: 15195**

**Buyer: REJOE JACOB**

**WO #:**

**Terms: NET 30**

**# of Items: 1**

**Sales Order: 121371**

**VAT #:**

**FOB:**

**Ship Via: FED EX MOTOR FRESHip Via Acc:**

**# of Boxes: 26**

**Ship Log #: 1**

**Cust VAT #:**

**AWB:**

**Weight: 594**

**Ship Order:**

**Ship Date: 12/2/2016**

**Shipment:**

Item	Part Number/Description	Shipped	BackOrd	CD	List Price	Disc	Unit Price	UOM	Total Amt
1	AN3-35A BOLT, AN Loc/Whse: 4F7 Control #: 154312-1 L-12895  10 PC PER PACK	350	0	NE				EA	
<div>ITEM AN3-35A-28</div> <div></div> <div>BATCH 7364433792</div> <div></div> <div>SPHOMVILAY 12/16/16</div>									

C OF C ENCLOSED

26 BOXES 594 LBS

INV# 147516/147517/147518/147543-147556 ARE SHIPPING TOGETHER

PARTS MANUFACTURED IN THE USA!!

THANK YOU!

**Special Instructions:**

**Authorized Signature:**



2655 Harrison Ave. SW  
Canton, Ohio 44706-3047  
Phone: 330-430-6190  
Fax: 330-430-6199

**CERTIFICATE OF CONFORMANCE**

**AVIALL AEROSPACE**

I hereby certify that on 12/02/16 Airfasco Industries provided the supplies called for by Contract/ PO Number 45556762 in accordance with all applicable requirements for shipment. I further state/ that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States.

Quality Assurance Representative

  
WM. DENT

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN3-35A	12895	350			



4360 NORTHEAST EXPRESSWAY  
ATLANTA GA 30340

# Certificate Of Compliance

Packing Slip	ORD19091
Document Date	1/18/2017
Page	1

**Bill To:**

AVIALL SERVICES, INC.  
P.O. BOX 619048  
DALLAS TX 75261-9048

**Ship To:**

AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE, DALLAS CDC  
2750 REGENT BLVD.  
DFW AIRPORT TX 75261-9048

(972) 586-1314 Ext. 0000

\* Item Shipped Directly from Vendor

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Order Placed By	Ship Date
45553689	AVIAL001	INSIDE SALES	FED EX GRND COL	NET 30 DAYS	HEATHER	3/7/2017
Ordered	Shipped	B/O	Item Number	Description	Site	UOM
50	50	0	6398-AB/1PT	MAGNOLIA 6398 AB 1 PINT KIT 50 Lot# 17A17/17A17	4360	EA
<div>ITEM MAGNOBOND6398 = 33  BATCH 7364498157  GRIVAS 03/13/17</div>						

**Instructions:**

M.S.D.S. REQUIRED / DATE OF MFG: 01/2017  
SPEC# 299-947-100, REV P, T-II, CL-2 /SHELF LIFE: FROM Date of  
MFG: 12 months @ below 40°F, or 3 months @ 40-85°F  
or 2 months @ 85-100°F  
SPEC# 299-947-359, REV A, T-I / SHLF LIFE:Date of receipt.: 12 month  
@ below 40°F or 09 months @ 60-80°F or 06 months @ 80-100°F  
EXPIRATION DATE: (299-947-100): 01/2018 or 04/2017 or 03/2017  
EXPIRATION DATE: (299-947-359): 03/2018 or 12/2017 or 09/2017

**Magnolia Advanced Materials, Inc.**

Signed:

Greg Bunn  
Technical Director

**We certify that the above listed material meets the sales specifications as outlined by the manufacturing procedures of Magnolia Advanced Materials, Inc. and the above listed specification.**

**The materials process and formulation(s) have not been changed in any way from the original qualified material(s) without prior approval.**

**Unless otherwise indicated, the country of origin is the USA.**

**Shelf life certified and applicable on unopened, properly stored containers.**



# Certificate Of Compliance

4360 NORTHEAST EXPRESSWAY  
ATLANTA GA 30340

Packing Slip	ORD19091
Document Date	1/18/2017
Page	1

**Bill To:**

AVIALL SERVICES, INC.  
P.O. BOX 619048  
DALLAS TX 75261-9048

**Ship To:**

AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE, DALLAS CDC  
2750 REGENT BLVD.  
DFW AIRPORT TX 75261-9048

(972) 586-1314 Ext. 0000

\* Item Shipped Directly from Vendor

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Order Placed By	Ship Date
45553689	AVIAL001	INSIDE SALES	FED EX GRND COL	NET 30 DAYS	HEATHER	3/7/2017
Ordered	Shipped	B/O	Item Number	Description	Site	UOM
50	50	0	6398-AB/1PT	MAGNOLIA 6398 AB 1 PINT KIT 50 Lot # 17A17/17A17	4360	EA

**Instructions:**

M.S.D.S. REQUIRED / DATE OF MFG: 01/2017  
SPEC# 299-947-100, REV P, T-II, CL-2 /SHELF LIFE: FROM Date of  
MFG: 12 months @ below 40°F, or 3 months @ 40-85°F  
or 2 months @ 85-100°F  
SPEC# 299-947-359, REV A, T-I / SHLF LIFE: Date of receipt.: 12 month  
@ below 40°F or 09 months @ 60-80°F or 06 months @ 80-100°F  
EXPIRATION DATE: (299-947-100): 01/2018 or 04/2017 or 03/2017  
EXPIRATION DATE: (299-947-359): 03/2018 or 12/2017 or 09/2017

**Magnolia Advanced Materials, Inc.**

Signed: \_\_\_\_\_

Greg Bunn  
Technical Director

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**Unless otherwise indicated, the country of origin is the USA.**

**Shelf life certified and applicable on unopened, properly stored containers.**



A BOEING COMPANY

# Commercial Invoice

**AVIALL SERVICES INC**  
**2750 REGENT BLVD**  
**DFW AIRPORT TX 75261**  
**USA**

Tracking Number	Government Transaction Number
722544334209	<b>NOEEI FTR 30.36</b>
Ship From	Delivery Number
LU_US_1000	8004232178
AVIALL CENTRAL WAREHOUSE	Commercial Invoice Number
2750 REGENT BLVD.	9305258977
DFW AIRPORT TX 75261	Ship Date
USA	14 March, 2017
	Incoterms
	EXW Shipping Point

Sold To	10003952	Ultimate Consignee	10003952	Ship To	10003952	Freight Forwarder	400010
DART AEROSPACE LTD		DART AEROSPACE LTD		DART AEROSPACE LTD		FEDEX	
1270 ABERDEEN STREET		1270 ABERDEEN STREET		1270 ABERDEEN STREET		FEDEX NATIONAL LTL INC	
HAWKESBURY ON K6A 1K7		HAWKESBURY ON K6A 1K7		HAWKESBURY ON K6A 1K7		PO BOX 94515	
CANADA		CANADA		CANADA		PALATINE IL 60094-4515	
						Tax Number: 20-4734803	

Comments:

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value USD	Extended Value USD
30	MAGN0B0ND6398 - ADHESIVE: EPOXY,A/B,112ML Export Tariff: 3506100000    Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526    PO: 35553 Batch Number: 7364498157	US	12	CQ	60.26	723.12



A BOEING COMPANY

# Commercial Invoice

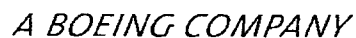
Delivery Number	Commercial Invoice Number
8004232178	9305258977

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Price USD	Extended Value USD
------	---------------------------	-------------------	----------	-----	-------------------	-----------------------

Gross Value	723.12
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	723.12

**FOR CUSTOMS PURPOSES ONLY  
NOT A BILLING INVOICE**

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end user(s) here in identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.



**AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT TX 75261  
USA**

**NOEEI FTR 30.36**

722544334209

8004232178

Commercial Invoice Number

9305258977

	Ship Date
--	-----------

14 March, 2017

**Incoterms**

EXW Shipping Point

<b>Sold To</b> <b>10003952</b> <b>DART AEROSPACE LTD</b> <b>1270 ABERDEEN STREET</b> <b>HAWKESBURY ON K6A 1K7</b> <b>CANADA</b>	<b>Ultimate Consignee</b> <b>10003952</b> <b>DART AEROSPACE LTD</b> <b>1270 ABERDEEN STREET</b> <b>HAWKESBURY ON K6A 1K7</b> <b>CANADA</b>	<b>Ship To</b> <b>10003952</b> <b>DART AEROSPACE LTD</b> <b>1270 ABERDEEN STREET</b> <b>HAWKESBURY ON K6A 1K7</b> <b>CANADA</b>	<b>Freight Forwarder</b> <b>400010</b> <b>FEDEX</b> <b>FEDEX NATIONAL LTL INC</b> <b>PO BOX 94515</b> <b>PALATINE IL 60094-4515</b>
			<b>Tax Number: 20-4734803</b>

**Comments:**

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value USD	Extended Value USD
30	MAGN0B0ND6398 - ADHESIVE: EPOXY,A/B,112ML Export Tariff: 3506100000      Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526      PO: 35553 Batch Number: 7364498157	US	12	CQ	60.26	723.12



A BOEING COMPANY

# Commercial Invoice

Delivery Number	Commercial Invoice Number
8004232178	9305258977

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Price USD	Extended Value USD
------	---------------------------	-------------------	----------	-----	-------------------	-----------------------

Gross Value	723.12
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	723.12

**FOR CUSTOMS PURPOSES ONLY  
NOT A BILLING INVOICE**

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end user(s) here in identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.





A BOEING COMPANY

# Commercial Invoice

**AVIAL SERVICES INC**  
**2750 REGENT BLVD**  
**DFW AIRPORT TX 75261**  
**USA**

Tracking Number	Government Transaction Number <b>NOEEI FTR 30.36</b>
722544334209	Delivery Number 8004232178
Ship From LU_US_1000	Commercial Invoice Number 9305258977
AVIAL CENTRAL WAREHOUSE 2750 REGENT BLVD. DFW AIRPORT TX 75261 USA	Ship Date 14 March, 2017
	Incoterms EXW Shipping Point

Sold To 10003952 DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	Ultimate Consignee 10003952 DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	Ship To 10003952 DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	Freight Forwarder 400010 FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515
			Tax Number: <b>20-4734803</b>

Comments:

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value USD	Extended Value USD
30	MAGN0BOND6398 - ADHESIVE: EPOXY,A/B,112ML Export Tariff: 3506100000 Export Classification: EAR99 Authorization: NLRAT_MAR_2017 Sales Order: 1002930526 PO: 35553 Batch Number: 7364498157	US	12	CQ	60.26	723.12



A BOEING COMPANY

# Commercial Invoice

Delivery Number	Commercial Invoice Number
8004232178	9305258977

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Price USD	Extended Value USD
------	---------------------------	-------------------	----------	-----	-------------------	-----------------------

Gross Value	723.12
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	723.12

**FOR CUSTOMS PURPOSES ONLY  
NOT A BILLING INVOICE**

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end user(s) here in identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

**Shipper** AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT, TX, 75261  
U.S.A.

**Air Waybill No.**

Page 1 of 1 Pages

Shipper's Reference Number  
(optional)

8004232178

**Consignee** DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY, ON, K6A 1K7  
Canada

**LABELMASTER  
SOFTWARE**

Created using  
International Air  
regulations and  
FedEx carrier  
variations.

Two completed and signed copies of this declaration  
must be handed to the operator.

### WARNING

Failure to comply in all respects with the applicable  
Dangerous Goods Regulations may be in breach of the  
applicable law, subject to legal penalties.

### TRANSPORT DETAILS

This shipment is within the  
limitations prescribed for:  
(delete non-applicable)

Airport of Departure:

PASSENGER  
AND CARGO  
AIRCRAFT

~~CARGO~~  
~~AIRCRAFT~~  
~~ONLY~~

Airport of Destination:

Shipment type: (delete non-applicable)

NON-RADIOACTIVE

~~RADIOACTIVE~~

### NATURE AND QUANTITY OF DANGEROUS GOODS

#### Dangerous Goods Identification

UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack- ing Group	Quantity and type of packing	Packing Inst.	Authorization
UN3267	Corrosive liquid, basic, organic, n.o.s. (AMINOETHYLPIPERAZINE SOLUTION)	8	III	1 Fibreboard Box x 1.44 L	852	

Additional Handling Information Emergency Contact Name: CCN2132 . 24 hr. Emergency Contact Tel. No. 1-800-424-9300 // INTL +1-703-527-3887

I hereby declare that the contents of this consignment are fully and  
accurately described above by the proper shipping name, and are  
classified, packaged, marked and labelled/placarded, and are in all  
respects in proper condition for transport according to applicable  
international and national governmental regulations. I declare that all of the  
applicable air transport requirements have been met.

Name/Title of signatory

David Dirckson

Hazardous Shipper


Place and Date Dallas Tx, 75261 3/14/2017

Signature

(see warning above)

*David Dirckson*

## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

<b>Shipper</b> AVIALL SERVICES INC 2750 REGENT BLVD DFW AIRPORT, TX, 75261 U.S.A.		<b>Air Waybill No.</b> Page 1 of 1 Pages  Shipper's Reference Number 8004232178 (optional)					
<b>Consignee</b> DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON, K6A 1K7 Canada		<b>LABELMASTER SOFTWARE</b>  Created using International Air regulations and FedEx carrier variations.					
Two completed and signed copies of this declaration must be handed to the operator.		<b>WARNING</b>  Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.					
<b>TRANSPORT DETAILS</b> This shipment is within the limitations prescribed for: (delete non-applicable) <table border="1"><tr><td>PASSENGER AND CARGO AIRCRAFT</td><td><del>SAROO</del> <del>XXXXX</del> <del>ONLY</del></td></tr></table> Airport of Departure:		PASSENGER AND CARGO AIRCRAFT	<del>SAROO</del> <del>XXXXX</del> <del>ONLY</del>	Shipment type: (delete non-applicable) <table border="1"><tr><td>NON-RADIOACTIVE</td><td><del>X RADIOACTIVE XXXX</del></td></tr></table>		NON-RADIOACTIVE	<del>X RADIOACTIVE XXXX</del>
PASSENGER AND CARGO AIRCRAFT	<del>SAROO</del> <del>XXXXX</del> <del>ONLY</del>						
NON-RADIOACTIVE	<del>X RADIOACTIVE XXXX</del>						
Airport of Destination:							
<b>NATURE AND QUANTITY OF DANGEROUS GOODS</b>							
Dangerous Goods Identification							
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Packing Group	Quantity and type of packing	Packing Inst.	Authorization	
UN3267	Corrosive liquid, basic, organic, n.o.s. (AMINOETHYLPIPERAZINE SOLUTION)	8	III	1 Fibreboard Box x 1.44 L	852		
Additional Handling Information Emergency Contact Name: CCN2132 . 24 hr. Emergency Contact Tel. No. 1-800-424-9300 // INTL +1-703-527-3887							
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.				Name/Title of signatory David Dirickson Hazardous Shipper Place and Date Dallas Tx, 75261 3/14/2017 Signature (see warning above) 			

# SHIPPER'S DECLARATION FOR DANGEROUS GOODS

<b>Shipper</b> AVIALL SERVICES INC 2750 REGENT BLVD DFW AIRPORT, TX, 75261 U.S.A.	<b>Air Waybill No.</b> Page 1 of 1 Pages  <b>Shipper's Reference Number</b> 8004232178 <i>(optional)</i>
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<b>Consignee</b> DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON, K6A 1K7 Canada	<b>Created using</b> International Air regulations and FedEx carrier variations.
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Two completed and signed copies of this declaration must be handed to the operator.

TRANSPORT DETAILS			
This shipment is within the limitations prescribed for: <i>(delete non-applicable)</i>	Airport of Departure:		
<table border="1"> <tr> <td>PASSENGER AND CARGO AIRCRAFT</td> <td> <del>CARGO</del>  <del>AIRCRAFT</del>  <del>XXXXXX</del>  <del>YYYYYY</del> </td> </tr> </table>	PASSENGER AND CARGO AIRCRAFT	<del>CARGO</del> <del>AIRCRAFT</del> <del>XXXXXX</del> <del>YYYYYY</del>	
PASSENGER AND CARGO AIRCRAFT	<del>CARGO</del> <del>AIRCRAFT</del> <del>XXXXXX</del> <del>YYYYYY</del>		


## WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

Airport of Destination:	Shipment type: <i>(delete non-applicable)</i> NON-RADIOACTIVE <del>X RADIOACTIVE XXXX</del>
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NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
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## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

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<small>Two completed and signed copies of this declaration must be handed to the operator.</small>		<b>WARNING</b>  Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.				
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Issuing Date 08-Oct-2015

Revision date 06-Nov-2015

Revision Number 5

## 1. IDENTIFICATION

### Product identifier

Product name Magnobond 6398-A

### Other means of identification

Product Code(s) 6398-A

Synonyms Magnolia 6398-A

### Recommended use of the chemical and restrictions on use

Recommended Use This product contains epoxy constituents that have an average molecular weight of less than or equal to 700.

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Magnolia Advanced Materials  
4360 NE Expressway  
Atlanta, GA 30344

### Emergency telephone number

Company Phone Number (770) 451-2777  
Emergency telephone number INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)  
Account 79439

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization

Category 1

### Label elements

#### Emergency Overview

#### **WARNING**

#### Hazard statements

May cause an allergic skin reaction



Appearance Gray

Physical state Paste/Gel

Odor Slight ethereal

### Precautionary Statements - Prevention



Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves

IF ON SKIN: Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Causes mild skin irritation Harmful to aquatic life with long lasting effects Harmful to aquatic life

Unknown acute toxicity 55.2 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Not applicable

**Mixture****Synonyms**

Magnolia 6398-A.

Chemical Name	CAS-No	Weight %	Trade secret
Trade secret	Proprietary	30-60	*
Aluminum	7429-90-5	25-50	*
Epoxy resin	Proprietary	5-15	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****Description of first aid measures****General advice**

Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. MAY CAUSE ALLERGIC SKIN REACTION.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Skin contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation**

Remove from exposure, lie down. If symptoms persist, call a physician.

**Ingestion**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical advice/attention.

**Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.**Specific hazards arising from the chemical**

No information available.

**Explosion data****Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Other Information**

Ventilate the area.

**Environmental precautions****Environmental precautions**

Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

**Incompatible Products**

None known based on information supplied.

**8. Exposure Controls/Personal Protection****Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum	TWA: 1 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
7429-90-5		TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	No special protective equipment required.
<b>Skin and body protection</b>	No information available.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Wash hands before breaks and after work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	Paste/Gel	<b>Odor</b>	Slight ethereal
<b>Appearance</b>	Gray	<b>Odor threshold</b>	No information available
<b>Color</b>	No information available		

<b>Property</b>	<b>Values</b>	<b>Remarks/ • Method</b>
<b>PH</b>	No information available	
<b>Melting point / freezing point</b>	No information available	
<b>Boiling Point/Range</b>	107.3 °C 225 °F	
<b>Flash point</b>	> 93.4 °C / > 200 °F	
<b>Evaporation Rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Relative Density</b>	1.25	
<b>Water solubility</b>	Negligible	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content</b>	Negligible
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

Carbon oxides. Phenols. Aromatic hydrocarbons.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Product Information</b>	The product has not been tested
<b>Inhalation</b>	There is no data available for this product.
<b>Eye contact</b>	There is no data available for this product.
<b>Skin contact</b>	There is no data available for this product.
<b>Ingestion</b>	There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Epoxy resin	= 11400 mg/kg ( Rat )	-	-

**Information on toxicological effects****Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No information available.
<b>MUTAGENIC EFFECTS</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 63,840.00 mg/kg**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects

46.4 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

Other adverse effects No information available

**13. DISPOSAL CONSIDERATIONS**Waste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Aluminum 7429-90-5	Ignitable (powder)

**14. TRANSPORT INFORMATION**

DOT Not regulated

ICAO

UN-No 3082  
Hazard Class 9  
Packing group III

IATA

UN-No 3082  
Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)  
Hazard Class 9  
Packing group III

IMDG/IMO

UN-No 3082  
Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)  
Hazard Class 9  
Packing group III  
EmS No. F-A, S-F

RID

UN-No 3082  
Hazard Class 9  
Packing group III  
Classification code M6

ADR

UN-No 3082  
Hazard Class 9  
Packing group III  
Classification code M6

**15. REGULATORY INFORMATION**International Inventories

TSCA Complies  
DSL/NDL Complies  
EINECS/ELINCS Complies  
ENCS Does not comply  
IECSC Complies  
KECL Complies

PICCS Does not comply  
AICS Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Aluminum 7429-90-5	X	X	X

#### U.S. EPA Label Information

EPA Pesticide registration number Not applicable

### **16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<u>NFPA</u>	Health hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health hazard 2	Flammability 1	Physical hazards 0	Personal precautions B

Prepared by Magnolia Advanced Materials, Inc.  
4360 NE Expressway.  
Atlanta, GA 30340  
Issuing Date 08-Oct-2015  
Revision date 06-Nov-2015  
Revision note  
No information available

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS



# Safety Data Sheet

Issuing Date 06-Nov-2015

Revision date 06-Nov-2015

Revision Number 3

## 1. IDENTIFICATION

### Product identifier

Product name Magnobond 6398-B

### Other means of identification

Product Code(s) 6398-B

UN-No 3267

Synonyms Magnolia 6398-B

### Recommended use of the chemical and restrictions on use

Recommended Use Amine curing agent.

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Magnolia Advanced Materials  
4360 NE Expressway  
Atlanta, GA 30344

### Emergency telephone number

Company Phone Number (770) 451-2777  
Emergency telephone number INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)  
Account 79439

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B

### Label elements

#### Emergency Overview

**DANGER**

#### Hazard statements

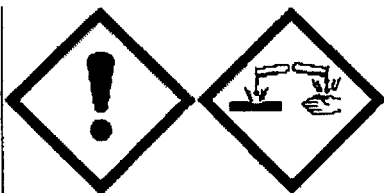
HARMFUL IF SWALLOWED

Harmful in contact with skin

Causes severe skin burns and eye damage

May cause an allergic skin reaction



**Appearance** Off-white to amber**Physical state** Paste/Gel**Odor** Amine**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dusts or mists  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Contaminated work clothing must not be allowed out of the workplace

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor  
 Specific treatment (see .? on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor  
 Call a POISON CENTER or doctor if you feel unwell  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISON CENTER or doctor  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Harmful to aquatic life with long lasting effects Harmful to aquatic life

Unknown acute toxicity

0.002 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Not applicable

**Mixture****Synonyms**

Magnolia 6398-B.

**Formula**

Not Applicable-Mixture

Chemical Name	CAS-No	Weight %	Trade secret
Amine curing agent	Proprietary	30-60	*
Amine curing agent	Proprietary	15-40	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****Description of first aid measures**

<b>General advice</b>	Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. MAY CAUSE ALLERGIC SKIN REACTION.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove from exposure, lie down. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical advice/attention.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
<b>Other Information</b>	Ventilate the area.

**Environmental precautions**

<b>Environmental precautions</b>	Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
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**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
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Methods for cleaning up Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

**Incompatible Products** None known based on information supplied.

## 8. Exposure Controls/Personal Protection

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Safety glasses with side-shields.

**Skin and body protection** Protective gloves.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Wash hands before breaks and after work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Paste/Gel	<b>Odor</b>	Amine
<b>Appearance</b>	Off-white to amber	<b>Odor threshold</b>	No information available
<b>Color</b>	No information available		
<b>Property</b>	<b>Values</b>	<b>Remarks/ • Method</b>	
<b>PH</b>	No information available		
<b>Melting point / freezing point</b>	No information available		
<b>Boiling Point/Range</b>	107.3 °C 225 °F		
<b>Flash point</b>	> 93.4 °C / > 200 °F		
<b>Evaporation Rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limit in Air</b>			
<b>Upper Flammability Limit</b>	No information available		
<b>Lower Flammability Limit</b>	No information available		
<b>Vapor pressure</b>	No information available		
<b>Vapor density</b>	No information available		
<b>Relative Density</b>	1.0		

<b>Sensitization</b>	No information available.
<b>MUTAGENIC EFFECTS</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	944.00 mg/kg
<b>ATEmix (dermal)</b>	1,490.00 mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects

54.168 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

<b>Chemical Name</b>	<b>Toxicity to Algae</b>	<b>Toxicity to Fish</b>	<b>Daphnia Magna (Water Flea)</b>
Amine curing agent	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through	= 32 mg/L EC50 32: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

<b>Chemical Name</b>	<b>Log Pow</b>
Amine curing agent	-1.48

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste Disposal Method**

Dispose of contents/container in accordance with local regulation.

**Contaminated packaging**

Do not reuse container.

**14. TRANSPORT INFORMATION****DOT**

<b>UN-No</b>	3267
<b>Hazard Class</b>	8 (Corrosive)
<b>Packing group</b>	III

**ICAO**

UN-No	3267
Hazard Class	8 (Corrosive)
Packing group	III

**IATA**

UN-No	3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOETHYLPIPERAZINE SOLUTION)
Hazard Class	8 (Corrosive)
Packing group	III
Description	A3

**IMDG/IMO**

UN-No	3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOETHYLPIPERAZINE SOLUTION)
Hazard Class	8 (Corrosive)
Packing group	III
EmS No.	F-A, S-B

**RID**

UN-No	3267
Hazard Class	8 (Corrosive)
Packing group	III
Classification code	C7

**ADR**

UN-No	3267
Hazard Class	8
Packing group	III
Classification code	C7
ADR/RID-Labels	8

**15. REGULATORY INFORMATION****International Inventories**

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute health hazard

No

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Amine curing agent	X	X	X

**U.S. EPA Label Information**

EPA Pesticide registration number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazard 3	Flammability 1	Instability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health hazard 3	Flammability 1	Physical hazards 0	Personal precautions B

Prepared by Magnolia Advanced Materials, Inc.  
4360 NE Expressway.  
Atlanta, GA 30340

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Revision date 06-Nov-2015

Revision note

No information available

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS